Revision: 0 July 1994

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SITE-SPECIFIC HEALTH AND SAFETY PLAN

Project: Westbank asbestos	
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Project No. 2010-901-033 / 003501SFXX TDD: 1010-9010-51C and TO1-9511-010 /P7	 4 0375 <i>5</i> 8
TOURAN NO.	
Project Location: Westwego / Harrey, Jefferson taves	hy LA
Proposed Date of Field Activities: 12/4/95(SITE RECON)	
Project Director: Carol Geraght	
Project Manager: 1727 Nagun	
Prepared by: Male Prepared: 12119	<u>2 · </u>
Approved by Date Approved: 12/1/	<u>95</u>
	. T. A. P.

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SITE-SPECIFIC	HEALTH AND SAFI	ETY PLAN	ACCEPTANCE	
Project: Westbank	asbestos	<u> </u>	506-9601-003/0035015Fx	٧٢.
Project No.: 214061/K	16100 318 TDD	/PAN No.: 7	04-9511-070/81A02	7 7
Project Location: WESTWERD	Harry Jes	4ev507	Lavish, LA	
Project Manager: TROY WC	Equin Proje	d Director:	axol Geraghty	
The undersigned acknowledge that they ha	ve read and understood and	agree to abide b	by the health and safety plan.	
Name (Printed)	Name (Signatus	re)	Date	_
TROY M. NAQUEN	Zwar /	Jaguni	2/6/96	
Gregory K Day	Gregory R.	My	2/7/96	
L. Mine	Call Office	ran	3/24/5	
John Mrellen	John Son	1/-	3/29/96	_
Carol A beraghty	Carolage	rage	7/11/96	
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Marrero, Janusiana

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	W. Jeff +	even Medical Cent

1.1 POLICY

It is E & E's policy to ensure the health and safety of its employees, the public, and the environment during the performance of work it conducts. This site-specific health and safety plan (SHASP) establishes the procedures and requirements to ensure the health and safety of E & E employees for the above-named project. E & E's overall safety and health program is described in Corporate Health and Safety Program for Taxic and Hazardous Substances (CHSP). After reading this plan, applicable E & E employees shall read and sign E & E's Site-Specific Health and Safety Plan Acceptance form.

This SHASP has been developed for the sole use of E & E employees and is not intended for use by firms not participating in E & E's training and health and safety programs. Subcontractors are responsible for developing and providing their own safety plans.

•		Applicable Regulation/Guidance	
29 CFR 1910	120, Hazardous Waste Operat	ions and Emergency Response (HAZW)	OPER)
Other:			
2 SCOPE OF W	al Don	and internal	ish lieback a
Description of World	orumentos	To Jo arein	the bit to t
Marie	must and	Auman Mi	atte Chimaly
quipment/Supplies	: Attachment 1 contains che	eklist of equipment and supplies that wi	be needed for this work.
he following is a c	description of each numbered	ask:	Conduction this time
Task Number		: Task Description	
7.	wapook a	documentation	
2	Chotodo	curren lation	
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.3 SITE DESCR	IPTION		e ja
ite Map: A site m	ap or sketch is attached at the	end of this plan.	
		r detailed description): My St.	to was disigned
indust	the Johns-	Marville blas	of landills as
roadw	aip and te	esidences. It	operated from
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	Containing	material be	1-1product 3
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the site currently in operation? Tyes No	10 10 10 10	
cations of Contaminants/Wastes:	wwill gant, y	use
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Systes Continuas Natt	also found on road	bed
Medicial States in Line of Contaminants Wastes:	esidential dinewa	YP .
_ Liquid Solid	C. Sudan	V
I Liquid Solid	☐ Sludge ☐ Gas/Vapor	
☐ Flammable/Ignitable ☐ Volatile	☐ Corrosive ☐ Acutely Toxic	
☐ Explosive ☐ Reactive	Carcinogenic Radioactive	
Medical/Pathogenic Other:		
		:
2 ORGANIZATION	ND RESPONSIBILITIES	
2. ORGANIZATION	ND RESIGNATION	
& E team personnel shall have on-site responsibilities as descri	ed in E & E's standard operating procedure (SOP) for	Site
spection. The project team, including qualified alternates, is id		
	C. D. C.	
Name	Site Role/Responsibility	
Troy Naguer	Project/Task Manager	<u></u>
Grea Bay	Site Safety Officer Treasury	AUL.
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	A. Carlotte	****
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	AINING as indicated below. As applicable, personnel shall have	e read th
ior to work, E & E team personnel shall have received training oject work plan, sampling and analysis plan, and/or quality ass	AINING as indicated below. As applicable, personnel shall be trance project plan prior to project work.	re read th
ior to work, E & E team personnel shall have received training	AINING as indicated below. As applicable, personnel shall have	re read th
ior to work, E & E team personnel shall have received training oject work plan, sampling and analysis plan, and/or quality ass	AINING as indicated below. As applicable, personnel shall have an indicated below. As applicable, personnel shall have a indicated below. Required	re read th
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ior to work, E & E team personnel shall have received training oject work plan, sampling and analysis plan, and/or quality ass Training 40-Hour OSHA HAZWOPER Initial Training and Annual References	AINING as indicated below. As applicable, personnel shall have an applicable and a shall have a	

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Training	Required	
8 Hour General Radiation Health and Safety		,
Radistion Refresher		
DOT and Biannual Refresher		X
Other ²		
4.	MEDICAL SURVEILLANCE	
1.1 MEDICAL SURVEILLANCE PROGRAM		
& E field personnel shall actively participate in E eccived, within the past year, an appropriate physic	& E's medical surveillance program as at examination and health rating.	described in the CHSP and shall have
E & E's health and safety record (HSR) form will be E & E employees should inform the site safety office relevant to the safe conduct of the work to which the	er (SSO) of any allergies, medical cond	ployee for the duration of his or her work litions, or similar situations that are
1.2 RADIATION EXPOSURE 1.2.1 External Dosimetry		
Thermoluminescent Dosimeter (TLD) Badges: TLD	badges are required to be worn by all	E & E field personnel on all E & E sites
Pocket Dosimeters: N/A		
January Backgrou	4002 With 400 and well bl	Months 4 duri ho, livels ticted.
Whole body count Bioassa Requirements:		estado en la compansión de
1.2.3 Radiation Dose		
Dose Limits: E & E's radiation dose limits are state	d in the CHSP. Implementation of the	se dose limits may be designated on a site
Site-Specific Dose Limits:		
ALARA Policy: Radiation doses to E & E personne	shall be maintained as low as reasons	ibly achievable (ALARA), taking into
ecount the work objective, state of technology avail	able, economics of improvements in do	se reduction with respect to overall health
and safety, and other societal and socioeconomic cor	nsiderations.	The second secon
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	5 of 20	
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Sample Handling: <u>Protec</u>	tive gloves of a type designated in Sec	tion 7 will be worn when con	uinerized samples are handle	<u> 4 for</u>
labeling, packaging, trans	portation, and other purposes.			
Vermiculite Handling:	espiratory protection (i.e., high-efficier	e (noticulate air fikration) is	recommended when vernicu	lise is used
to package samples into s	thipping conviners (some vermiculite c	ontains low concentrations of	astesios).	
Other Safe Work Practing	herare of	besible	dogs/cuts	<u> </u>
around	the comme	iitis	V I	

6. HAZARD EVALUATION AND CONTROL

6.1 PHYSICAL HAZARD EVALUATION AND CONTROL

Potential physical hazards and their applicable control measures are described in the following table for each task.

Hazard	Task Number	Hazard Control Measures
Biological (flora, fauna; etc.)	10	· Potential hazard: POKON Dak, WY SUNGE, WILL
	1,2	Establish site-specific procedures for working around identified hazards. Other:
Cold Stress		Provide warm break area and adequate breaks.
, , , , , , , , , , , , , , , , , , , ,	1,2	Provide warm noncasseinated beverages.
·	,	Promote cold stress awareness.
		 See Cold Stress Prevention and Treatment (attached at the end of this plan if cold stress is a potential hazard).
Compressed Gas Cylinders		Use caution when moving or storing cylinders.
	- 1	A cylinder is a projectile hazard if it is damaged or its neck is broken.
•		Store cylinders upright and secure them by chains or other means.
	 	• Other:
Confined Space		Ensure compliance with 29 CFR 1910.146. See SOP for Confined Space Entry. Additional documentation is required.
		Other: Other:
Drilling	,	See SOP for Health and Safety on Drilling Rig Operations. Additional documentation may be required.
	4	Other Statement Statement
e de la company		• Other:
Drums and Containers		• Ensure compliance with 29 CFR 1910.120().
		Consider unlabeled drums or containers to contain hazardous substances and handle accordingly until the contents are identified.
	l	Inspect drums or containers and assure integrity prior to handling.
		Move drums or containers only as necessary; use caution and warn nearby personnel of potential hazards.
<u> </u>		Open, sample, and/or move drums or containers in accordance with
	ेश एको कैंद	established procedures; use approved drum/container-handling equipment. Other:

5. SITE CONTROL

STEELATOUT AND WORK ZONE	~
site Work Zones: Refer to the map or site	sketch, attached at the end of this plan, for designated work zones.
Site Access Requirements and Special Cons	siderations STE 15 comprised of a
residence con	mrumay '
Illumination Requirements: _ all_	work will be performed
auring daylige	nt rouro.
Sanzary Facilities (e.g., toilet, shower, pour	able water): Marest gasoline service
station; no	in-site facques without
On-Site Communications: Merba	I pericle Chern if needed
Other Site-Control Requirements: A OM-LITEKTSOCCI	wave of traffic and cur fizers of the community) and
5.2 SAFE WORK PRACTICES	
Daily Safety Meeting: A daily safety meeti	ting will be conducted for all E & E personnel and documented on the Daily Safety
Meeting Record form or in the field logboo	ok. The information and data obtained from applicable site characterization
and analysis will be addressed in the safety	meetings and also used to update this SHASP, as necessary.
Work Limitations Work shall be limited to	to a maximum of 12 hours per day. If 12 consecutive days are worked, at least one day
•	
	ed. Work will be conducted in daylight hours unless prior approval is obtained and the
illumination requirements in 29 CFR 1910.	120(m) are satisfied
Weather Limitations: Work shall not be co	onducted during electrical storms. Work conducted in other inclement weather (e.g., rai
snow) will be approved by project manager	ment and the regional safety coordinator or designee.
Other Work Limitations:	
The state of the s	
Buddy System: Field work will be conduct	acd in pairs of team members according to the buddy system.
Doody Dysom. I had work was de comed-	
Line of Sight: Each field team member shi	nall remain in the line of sight and within verbal communication of at least one other team
member.	
Eating, Drinking, and Smoking: <u>Eating, di</u>	Irinking, smoking, and the use of tobacco products shall be prohibited in the exclusion
and contamination reduction areas, at a mir	nimum, and shall only be permitted in designated areas.
Contamination Avoidance: Field personnel	shall avoid unnecessary contamination of personnel, equipment, and materials to the
extent practicable.	
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Hazard , 1	ask Number	Hazard Control Measures
		Ensure that field personnel do not work in close proximity to operating equipment.
		Ensure that lifting capacities, load limits, etc., are not exceeded.
		• Other:
Heights (Scaffolding.		Ensure compliance with applicable subparts of 29 CFR 1910.
Ladders, etc.)		Identify special PPE needs (e.g., lanyards, safety nets, etc.)
		Other:
Noise		Establish noise level standards for on-site equipment/operations.
		• Inform personnel of hearing protection requirements (Section 7).
		Define site-specific requirements for noise monitoring (Section 8).
		• Other:
Overhead Obstructions		Wear hard hat.
	· 	• Other:
Power Tools		Ensure compliance with 29 CFR 1910 Subpart P.
C		• Other:
Sunburn	1.2	Apply sunscreen. Was betray and been elected.
	T	Wear hats/caps and long sleeves. Other:
Utility Lines		Identify/locate existing utilities prior to work.
Ottally Edica		Ensure that overhead, underground, and nearby utility lines are at least 25
	' \ a.	feet away from project activities.
•	: ,	Contact utilities to confirm locations, as necessary.
		Other:
Weather Extremes	10	Potential hazarda: / AU
	12	Establish site-specific contingencies for severe weather situations.
	nii i	Provide for frequent weather broadcasts.
ļ [;] "	· • • • • • • • • • • • • • • • • • • •	Weatherize safety gear, as necessary (e.g., ensure eye wash units cannot
,		frocze, etc.).
`		Identify special PPE (Section 7) needs. Discontinuo mark during assess are the section.
	ent da en geograp per pay as us.	Discontinue work during severe weather. Other:
Other: Plib trib fact	and of fine the little to	and the late by Latt - wall france
uneven terru	: 1,2	the fact with the
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Other: Sebries, Clip	WO.	CILE Sound Hills
	9	- wy pwidnow

6.2 CHEMICAL HAZARD EVALUATION AND CONTROL

6.2.1 Chemical Hazard Evaluation - 1999 - 1999

Potential chemical hazards are described by task number in Table 6-1. Hazard Evaluation Sheets for major known contaminants are attached at the end of this plan.

Hazard .	Task Number	Hazard Control Measures
Electrical		Ensure compliance with 29 CFR 1910 Subparts I and S.
	_	Locate and mark energized lines.
		De-energize lines as necessary.
	-	Ground all electrical circuits.
		Guard or isolate temporary wiring to prevent accidental contact.
<u> </u>		Evaluate potential areas of high moisture or standing water and define special electrical needs.
		Other:
Excavation and Trenching	,	 Ensure that excavations comply with and personnel are informed of the requirements of 29 CFR 1926 Subpart P.
		 Ensure that any required sloping or shoring systems are approved as per 29 CFR 1926 Subpart P.
		 Identify special personal protective equipment (PPE) (see Section 7) and monitoring (see Section 8) needs if personnel are required to enter approved excavated areas or trenches.
~	,	 Maintain line of sight between equipment operators and personnel in excavations/trenches. Such personnel are prohibited from working in close proximity to operating machinery.
		Suspend or shut down operations at signs of cave in, excessive water, defective shoring, changing weather, or unacceptable monitoring results.
		• Other:
		• Other:
Fire and Explosion	Ŧ	• Inform personnel of the location(s) of potential fire/explosion bazards.
	,	Establish site-specific procedures for working around flammables.
	1 1	Ensure that appropriate fire suppression equipment and systems are available and in good working order.
		Define requirements for intrinsically safe equipment.
		• Identify special monitoring needs (see Section 8).
·	r Mangaga s	Remove ignition sources from sammable atmospheres.
	٠.	 Coordinate with local fire-fighting groups regarding potential fire/explosion situations.
		Establish contingency plans and review daily with team members.
		• Other:
Heat Stress		Provide cool break area and adequate breaks. Provide cool noncaffeinated beverages.
102		Promote heat stress awareness: Use active cooling devices (e.g., cooling vests) where specified.
		* See Heal Stress Prevention and Treatment (attached at the end of this plan if heat stress is a potential hazard).
Heavy Equipment Operation		Define equipment routes, traffic patterns, and site-specific safety measures.
		• Ensure that operators are properly trained and equipment has been properly inspected and maintained. Verify back-up alarms.
		Ensure that ground spotters are assigned and informed of proper hand signals and communication protocols.
	·	Identify special PPE (Section 7) and monitoring (Section 8) needs.

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TION	DIMON	Odor Constitutions Threshold Relative Puten. Acute Symptoms Description Response (eV)	Lox preating defricated adorted -	Luckeding bulgarion	Q								
			2	ulyway odorbes	D								
TION		Acute Symptoms	ion preceding de	The state of the s					e e e e e e e e e e e e e e e e e e e				
CHEMICAL HAZARD EVALUATION		Route(s) of Exposure	inhalation rings	Wheletton uggain	contact 0				-EL 4				
CHEM		Dermal Hazard (Y/N)	Z	>						·			
	(VAL)	7.17	2A/ec	.2A/c		·						, H	
	Exposure Limits (TWA)	REL	. Hec	offec. 25/0c				in the second		easur (1) e			e e
	Exposur	737	He 1240 He	lite 2. Acc.	<i>t</i> -								
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		Task Namber	1/2	1/2			·			(•			

6.2.2 Chemical Hazard Control

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	ring/Administrative	Control Mediures:	-14/1			
See Section	7.					
	CAL HAZARD EV Hazard Evaluation		CONTROL	•		
ential radiologic ched at the end		ibed below by task n	umber. Hazard Evalu	ation Sheets for m	ajor known conta	minants are
Task Number	Radionuclide	DAC (#CVml)	Route(s) of Exposure	Major Radiation(s)	Energy(s) (MeV)	Half-Lt
		A				ļ
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					•	
						
		<u></u>	ا ا	L.		
2 Radiologica	Hazard Control					-
	strative controls and	work practices shall	be instituted to reduce	e and maintain emp	oloyee exposures	to a level a
ow the permissit ctices are not fe Il be used to red	ble exposure/dose lir asible or effective, a	nits (see sections 4.2 ny reasonable combi nployee exposures to	be instituted to reduce 3 and 6.3.1). Whene nation of engineering/a level at or below per the state of the st	ver engineering/ad administrative cont	ministrative controls, work practic	ow bas alo
ow the permissit ctices are not fe Il be used to red	ble exposure/dose lir asible or effective, a luce and maintain en	nits (see sections 4.2 ny reasonable combi nployee exposures to	.3 and 6.3.1). Whene nation of engineering/	ver engineering/ad administrative cont	ministrative controls, work practice/dose limits.	ob and wo
ow the permissit ctices are not fe Il be used to red	ble exposure/dose lir asible or effective, a duce and maintain en ring/Administrative	nits (see sections 4.2 ny reasonable combi nployee exposures to	.3 and 6.3.1). Whene nation of engineering/	ver engineering/ad administrative cont	ministrative controls, work practice/dose limits.	ow bas alo
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tices are not fell be used to red blicable Enginee See Section	ble exposure/dose lirasible or effective, a duce and maintain entring/Administrative 7. LEVEL OF	nits (see sections 4.2 ny reasonable combinable combinable) Control Measures: FPROTECTION A	3 and 6.3.1). Whenenation of engineering/ a level at or below per second of the period	ver engineering/ad administrative conti ermissible exposure	ministrative controls, work practice/dose limits	ols and wo
w the permissic circes are not fell be used to red colicable Engineers: See Section LEVEL OF P	ble exposure/dose lirasible or effective, a duce and maintain entring/Administrative 7. LEVEL Of PROTECTION Is of protection (LOI)	nits (see sections 4.2 ny reasonable combinable combina	3 and 6.3.1). Whenenation of engineering/ a level at or below per second of the period	ver engineering/ad administrative conti- ermissible exposure	ministrative controls, work practice/dose limits.	ols and wo
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Task Number	В	C	D	Modifications Allowed
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Note: Use "X" for initial levels of protection. Use "(X)" to indicate levels of protection that may be used as site conditions warrant.

7.2 PERSONAL PROTECTIVE EQUIPMENT

The PPE selected for each task is indicated below. E & E's PPE program complies with 29 CFR 1910.120 and 29 CFR 1910 Subpart 1 and is described in detail in the CHSP. Refer to 29 CFR 1910 for the minimum PPE required for each LOP.

			Task Nur	nber/LOP		
PPE	1/0	2/0				£
Full-face APR						
PAPR						
Cartridges:						7 1
Н						
GMC-H						na i Amerika
GMA-H		1		u v	144 	
Other:			3 / No.		ese (g Laser sage part g (g	
Positive-pressure, full-face SCBA		7 : 27 43		. ۳ يو ګړ		ti _e
Spare air tanks (Grade D air)	- 1,			- 13 L		
Positive-pressure, full-sace, supplied-air system				afaigh ann a Tèig		
Cascade system (Grade D air)		. المناهد الما	فكالد التحسيد		44 05 4	
Manifold system	a was apart was a	Autor Warn		12.3		
5-Minute escape mask		entagente de la company			學學	
Safety glasses	X	X		TENERS OF		الميز فالد
Monogoggles						
Coveralls/clothing	7 X 12	X	34 ₹)	BETTE -	· · · · · · · · · · · · · · · · · · ·	

			Task Nun	ber/LOP		
PPE	1/0	2/D				
Protective clothing:	7					
Tyvek				,		
Saranex						
Other:						
Splash apron					, , , , , , , , , , , , , , , , , , ,	
Inner gloves:		- : -				
Cotton						
Nitrile						
Latex						
Other:					. 2.	
Outer gloves:		· · · · · · · · · · · · · · · · · · ·				
Vion				·		
Rubber						
Neoprene			1.			Α
Nitrile				Arran II		## 1. A
Other:				-,	_	41 24 4
Work gloves						
Safety boots (as per ANSI Z41)	X	X				<u>f</u>
Neoprene safety boots (as per ANSI Z41)	X	· X -	ara	ilab	1 14	neid
Boot covers (type:	X	X -	1	Me	de	K
Hearing protection (type:			V	istinist Maria	SPTSLAS Land	· · · · · ·
Hard hat			1) 			
Face shield	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a Complete And	and property of the party of th	1283) 1. T	EVERNAL TO	
Other:	Place.	المراجعة ا المراجعة المراجعة الم		4 		444
Other:			again ann an an an	ng (1) 2 24) maganasan	-	

8. HEALTH AND SAFETY MONITORING

Health and safety monitoring will be conducted to ensure proper selection of engineering/administrative controls, work practices, and/or PPE so that employees are not exposed to hazardous substances at levels that exceed permissible exposure/dose limits or published exposure levels. Health and safety monitoring will be conducted using the instruments, frequency, and action levels described in Table 8-1. Health and safety monitoring instruments shall have been appropriately calibrated and/or performance checked prior to use.

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Lie mentering for he sing for he was about Jackground - will check for any

)		HEALTH ,	AND SAFET	HEALTH AND SAFETY MONITORING	
Instrument	Task Number	Contaminant(s)	Monitoring Location	Monitoring Frequency	Action Leveks	rects
(6.£., HNu IS-101)		·			Unknown Vapors	Cootaminant-Specific
(e.g., OVA 128-GC)				; ;	Background to 1 ppm: Level D i to 5 ppm above background: Level C 5 to 500 ppm above background: Level B > 500 ppm above background: Level A	
Oxygen		2 77			Onygen	Explosivity
Meteo/Explosimeter		See	,		<19.5% or >25.0%: Evacuate area; climinate ignition sources; reassess condi-	10% LPL: Continue work in accordance with action levels for other instru-
35.					tions. 19.5 to 25.0%: Continue work in accordance with action levels for other instru-	ments; monitor continuously for com- bustible atmospheres. >10% LEL: Evacuate area; climinato
一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一					ments.	ignation sources; resistent continues.
Redistion Alert Monitor (Red-mini or RAM-4)		A Section of the sect		·	<0.1 mR/hr: Continue work in accordance with action levels for other instruments. ≥0.1 mR/hr: Evacuate area; reassess work plan and contact radiation safety special	Continue work in accordance with action levels for other instruments. Evacuate area; reassess work plan and contact radiation safety specialist.
Mist-Ram Particulate Moni-			·		General/Unknown	Contominant-Specific
			\$ \$4.00 \$ \$4.0	्रभाष्ट्रक स्	Evaluate health and safety measures when dust levels exceed 2.5 milligrams per cubic moter.	,
HCN/H2S (Monitox)	经验	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		24 ppm: Leave area and consult with SSO.	194
Dranger Colorimetric Tubes	本を	できる 一年		4 e	Tube Action Level	Action
		A Company of the Comp				- -

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Number	Table 8-1 HEALTH AND SAFETY MONITORING	Task Monitoring Monitoring Monitoring Number Contaminant(s) Location Prequency	î i		 12.5	
Tesk Number		,		e e e e e e e e e e e e e e e e e e e		

Other: 10.2 LOCAL AND SITE RESOURCES (including phone numbers) Ambulance West Tefferen and Delivery (1904) Ambulance West Tefferen and Delivery (1904) Ambulance West Tefferen and Delivery (1904) Directions to Hospital (map attached up the end of thispitan): Directions to Hospital (map attached up the end of thispitan): Directions to Hospital (map attached up the end of thispitan): Directions to Hospital (map attached up the end of thispitan): Directions to Hospital (map attached up the end of thispitan): Directions to Hospital (map attached up the end of thispitan): Directions to Hospital (map attached up the end of thispitan): Directions to Hospital (map attached up the end of thispitan): Deliver Department: Deliver De	THE SAN AND LANGUISTING IN THE PARTY AND THE PARTY MADE IN	THE TANK AND PROPERTY.
Ambulance: West Teffenson arrivallangers) 340-8661 Hospial: West Deffenson Medical Cultur 504 347 55. Directions to Hospial (map atteched at the end of thimpian): Bet and the West August Defensor Control: The Milettian of Married Surgary State Poisson Control: Poisson Control: Poisson Control: Fire Department: Mew alleans Policy Surgary States Poisson Control: Fire Department: Mew alleans Policy Surgary States Poisson Control: Site Contact: N/A On-Size Telephone Number: Cellular Telephone Number: Radios Available: Most Meddly will use faddy suptime Cother: 183 E& E EMERGENCY CONTACTS E& E Emergency Response Center (24 Hours): The Regional Office Contact Madalyn E SATI (504) 241 - 4698 (office) 1040-204-205-201-204-204 (poisson): Since Contact Madalyn E SATI (504) 241 - 4698 (office) 504) 276-04-16 (poisson) Social Office Contact Madalyn E SATI (504) 241 - 4698 (office) Social Office Contact Madalyn E SATI (504) 241 - 4698 (office) 104-4 MED-TOX HOTLING Poisson The Mich Tox Hotling is activated and accessed at follower: Majors The Mich Tox Hotling is activated and accessed at follower: Majors Leal 504/1970-1020-106-106-106-106-106-106-106-106-106-10	Other:	
Directions to Hospital (map attached as the end of this poin): Directions to Hospital (map attached as the end of this poin): Delta Department (Martin of Marting Survivary Ext of Mest on Life and Lif	Ambulance: West Jefferson andsul	
Police Department: Alw Orlans Forcy Oscians Parish Fire Department: Alw Orlans Forcy Oscians Parish Fire Department: Alw Orlans Forcy Oscians Parish Site Contact: Ala On-Size Telephone Number: Alw Martin (214) Ces 32270 C748 Site Contact: Ala On-Size Telephone Number: Alw Martin (214) Ces 32270 C748 Site Contact: All On-Size Telephone Number: Alw Martin Mar		et ante the westrank we last av west in
Fire Department: When Wellus File Not - 91 or 55-7800 Client Contact: Defin Wartin (214) (265-2277) (2748 Site Contact: NA On-Site Telephone Number: TBD Radios Available: MA Meldel, full use faulty system Other: 10.3 E & E EMERGENCY CONTACTS E & E Emergency Response Center (24 Hours): Ti6/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 (office) 716/684-8940 (o	Man O. Diana Polical	Delegra forish Police - all
Site Contact: WA On-Site Telephone Number: TBD Radios Available: WAT Meldel, well well buddy Augstern Other: 10.3 E & E EMERGENCY CONTACTS E & E Emergency Response Center (24 Hours): 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8060 (office) 716/635-1260 (home) De. Raymond Harbison: 10 e 95 95 95 95 95 95 95	(h (1) 1) 1821-22227 1	re Nest - 911 or \$15-7800
On-Size Telephone Number: All TBD Radios Available: MAT Melal, full use faulary suptime Other: 10.3 E & E EMERGENCY CONTACTS E & E Emergency Response Center (24 Hours): 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8960 (office) 7	-1/0	217) 465-106148
Radios Available: MSA Meldel, will use faiday system Other: 10.3 E & E EMERGENCY CONTACTS E & E Emergency Response Center (24 Hours): 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8060 (office) 716/655-1260 (home) Dr. Raymond Harbison: 108 198		
Other: 10.3 E & E EMERGENCY CONTACTS E & E Emergency Response Center (24 Hours): 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 Solidas 2560 (office) 716/684-8940 Solidas 2560 (office) 716/684-8940 Solidas 2560 (office) Solidas 2560 (office) Solidas 2570 (office) So	Cellular Telephone Number: TBD	
E & E Emergency Response Center (24 Hours): Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 716/684-8940 Solivation of Machanis (16/684-8060) (office) 716/685-1260 (home) Solivation of Adams (16/684-8060) (office) Solivation of Residual (office) Solivation of Residual (office) Solivation of Residual (office) (Sol) 291-4698 (office) Solivation of Residual (office) (Sol) 291-4698 (office) Solivation of Residual (office) Solivation of Residual (office) (Sol) 291-4698 (office) Solivation of Residual (office) Soliva		ul use puday sipient
E & E Emergency Response Center (24 Hours): Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 Corporate Health and Safety Director, Dr. Paul Jonnaire: 716/684-8940 716/684-8940 Solivation of Machanis (16/684-8060) (office) 716/685-1260 (home) Solivation of Adams (16/684-8060) (office) Solivation of Residual (office) Solivation of Residual (office) Solivation of Residual (office) (Sol) 291-4698 (office) Solivation of Residual (office) (Sol) 291-4698 (office) Solivation of Residual (office) Solivation of Residual (office) (Sol) 291-4698 (office) Solivation of Residual (office) Soliva	10.3 E & E EMERGENCY CONTACTS	
Tibless-1260 (home) Dr. Raymond Harbison: 19 = 19 5 Solizate 1465 (University of Adamss) 19 2 19 5 Solizate 1465 (University of Adamss) 19 2 19 5 Solizate 1465 (University of Adamss) 19 2 19 5 Solizate 1465 (University of Adamss) 19 19 5 Solizate 1270, 8263 (24 hour cervice) 19 19 19 19 19 19 19 19 19 19 19 19 19		
Regional Office Contact Madalyn E BAIL (504) 291-4698 (office) (S04) 292-1845 (home) (Nome) (Nome) (Nome) (Coll 501/370-8263- Major) (Coll 501/370-8263- Major)	Corporate Health and Safety Director, Dr. Paul Jonnaire:	
Regional Office Contact Madalyn E. BAII (504) 291-4698 (office) (504) 292-1845 (home) (h	the second state of the second state and the second	501/370 6263 (24 hour cervice) 7/3/4 5
10.4 MED-TOX HOTLINE INDIAS The Med-Tox hotline is activated and accessed as follows: Medas 1. Call 501/370-8263: Medas		
The Med-Tox hotline is activated and accessed as follows: Mojas 1. Call 501/370-8263: Mojas	Other: ATATL, Carol Beraghty	(\$04) 292-1845 (home)
1. Gell-501/370-8263: 178-195	TOTAL	· · · · · · · · · · · · · · · · · · ·
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9. DECONTAMINATION PROCEDURES

All equipment, materials, and personnel will be evaluated for contamination upon leaving the exclusion area. Equipment and materials will be decontaminated and/or disposed and personnel will be decontaminated, as necessary. Decontamination will be performed in the contamination reduction area or any designated area such that the exposure of uncontaminated employees, equipment, and materials will be minimized. Specific procedures are described below. Equipment/Material Decontamination Procedures (specified by work plan): Ventilation: All decontamination procedures will be conducted in PPE Requirements for Personnel Performing Decontamination: Personnel Decontamination in General: Following appropriate decontamination procedures, all field personnel will wash their hands and face with soap and potable water. Personnel should shower at the end of each work shift Disposable PPE must be rendered unusable and disposed as indicated in the work plan Disposition of Decontamination Wastes (e.g., dry wastes, decontamination fluids, etc.): J-20-11 196 -10. EMERGENCY RESPONSE This section contains additional information pertaining to on-site emergency response and does not duplicate pertinent emergency response information contained in earlier sections of this plan (e.g., site layout, monitoring equipment, etc.). Emergency response procedures will be rehearsed regularly as applicable, during project activities. 10.1 EMERGENCY RESPONSIBILITIES All Personnel: All personnel shall be alert to the possibility of an on-site emergency, report potential or actual emergency situations to the team leader and SSO; and notify appropriate emergency resources, as necessary Team Leader: The team leader will determine the emergency actions to be performed by E & E personnel and will direct these actions. The team leader also will ensure that applicable incidents are reported to appropriate E & E and elient project

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government agencies

2 State: This is an emergency: \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		•	
3 Provide aprelas			
Your telephone number man less for	U		
- Your location. Majoria? - Name of injured or exposed person. To the emergency. Majorial?	3+199		
- Action(s) taken mg s 145			
4. When a toxicologui (Dr. Raymond Harbis information. 4h2h9	on or essociate) returns your	est (should be within 15 minus	cs), repeat the above—
5. If a toxicologist does not return your call	within 15 minutes, call the fo	llowing in order until contact is	made:
a. E & E Emergency Response Center:	•	716/684-8940	-
b. Corporate Health and Safety Director	, Dr. Paul Jonmaire:	716/684-8060 (office) 716/655-1260 (home)	
c. Corporate Safety Officer, Serven She	man: Tim Siener	716/684-8060 (office) 716/688-0084 (horne)- 178 (716) 662 - 474 C	/45
10.5 OTHER EMERGENCY RESPONSE			
On-Site Evacuation Signal/Alarm (must be au Mewill Mewill	dible and perceptible above a	mbient noise and light levels):	perme or
On-Site Assembly Area: 10 BE	beternine	D	
Emergency Egress Route to Get Off Site;	mare tous	ard west	anle
Off-Site Assembly Area: 10 BE	BETERMINE	0	
Preferred Means of Reporting Emergencies:	en-site-pre	erbal; off-	sete-teleph
Site Security and Control: In an emergency	situation, personnel will atten	npt to secure the affected area an	d control site access.
Emergency Decontamination Procedures:	Emove d	isposable Br	Eard
grow m m	wa yaa		
PPE: Personnel will don appropriate PPE w	hen remonding to an emerge	ncy situation. The SSO and Sect	ion 7 of this plan will
provide guidance regarding appropriate PPE.			
Emergency Equipment: Appropriate emerge	ncy equipment is listed in Att	achment 1 Adequate supplies o	f this equipment shall be
maintained in the support area or other appro		3570	the adjustment of the second o
Incident Reporting Procedures: 107	mydries and	d exposurio	Molfy
BR HIS COPPAL	natorin	Mysel ; Ca	I Buffalo
His (Mary Wast	Who # 180	my neemal	elfende
OCHORUS-HEROLOUPLE OMA M	upay.	nehible uce	washing
recycled paper attall	u ace un	codes and e	Skirnemant

		IENT I IES CHECKLIST	
INSTRUMENTATION	No.	EMERGENCY EQUIPMENT	No.
OVA		First aid kit	V
Thermal desorber		Stretcher	
O ₂ /explosimeter w/cal. kit		Portable eye wash	
Photovac tip		Blood pressure monitor	
HNu (probe:eV)		Fire blanket	
Magnetometer		Fire extinguisher	
Pipe locator		Thermometer (medical)	
Weather station		Spill kit	
Draeger tube kit (tubes:			
Brunton compass			
Real-time cyanide monitor	-		
Real-time H ₂ S monitor			
Heat stress monitor	<u> </u>		
Noise equipment		DECONTAMINATION EQUIPMENT	
Personal sampling pumps and supplies		Wash tubs	
MiniRem dust monitor		Buckets ,	
Mercury monitor		Scrub brushes	
Spare batteries (type:	B 1 34	Pressurized sprayer	
,	1 1 1 2 1	Spray bottle	
		- Detergent (type:)	
RADIATION EQUIPMENT/SUPPLIES		Solvent (type:	
Documentation forms		Plastic sheeting	
Portable ratemeter		-Tarps and poles	
Scaler/ratemeter		Trash bags	V
1° Nal gamma probe	L	Trash cans	
2° Nai gamma probe		Masking tape	
ZnS alpha probe	,	Duct tape	Ť
GM pancake probe		Paper towels	
Tungsten-shielded GM probe		Face mask	单数
Micro R meter	1	Pace mask sankizer	
Jon chamber Hast W BADGE	X	Step ladders	1
Alert monitor	13	Distilled water	
Pocket dosimeter		Deionized water	
Dosimeter charger		A CONTRACTOR OF THE PROPERTY O	
Radiation warning tape	1 1 m	The second secon	8 j s
Radiation decon supplies		HAT THE TAXABLE PROPERTY OF THE PARTY OF THE	经
Spare batteries (type:		ELLINE OF THE STREET	;

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SITE SAFETY PLAN ATTACHMENTS FOR WESTBANK ASBESTOS

ATTACHMENT A: HAZARD EVALUATION OF CHEMICALS

ATTACHMENT B. SITE SKETCHES FROM THE 1990 TAT SITE

ASSESSMENT ***

ATTACHMENT C: VEHICLE ACCIDENT FORMS

ATTACHMENT D: COLD STRESS PREVENTION AND TREATMENT

ATTACHMENT E: FIRST AID INFORMATION

ATTACHMENT F: DAILY SAFETY MEETING RECORDS

ATTACHMENT G: STE SAFETY PLAN ADDENOUNS

- Asbeitos Balk Sompling Saldy Conclerati

ATTACHMENT A

HAZARD EVALUATION OF CHEMICALS

BASARD STALUATION OF CREMICALS

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Coccilite Agmile Octuble locular Woight NA PA Boiling Point NA Planable Linits Odor Threshold NA Ret/Nouse In	NA NIA
Coccilite Agmile Octuble locular Woight NA PA Boiling Point NA Planable Linits Odor Threshold NA Ret/Nouse In	NA NIA
Coccilite Agmile Octuble locular Woight NA PA Boiling Point NA Planable Linits Odor Threshold NA Ret/Nouse In	NA NIA
Coccilite Agmile Octuble locular Woight NA PA Boiling Point NA Planable Linits Odor Threshold NA Ret/Nouse In	NA NIA
Craculity Agmile Actually secular Weight N/A N/A Boiling Point N/A Pressing Point N/A Plannable Limits Odor Threshold N/A Ret/Nouse In	N/A N/A
N/A Boiling Point N/A Pressing Point N/A Pressing Point N/A Plannable Limits N/A Plannable M/A Ret/Nouse In	N/A N/A
N/A Boiling Point N/A Pressing Point N/A Pressing Point N/A Plannable Limits N/A Plannable M/A Ret/Nouse In	N/A N/A
N/A Boiling Point N/A Pressing Point N/A Plannable Limits Odor Threshold N/A Rat/Mouse In	NIA NIA
N/A Pressing Point N/A Plannable Limits Odor Threshold N/A Rat/Nouse III	_ <i>~/</i> A
Odor Threshold NA Ret/Nouse In	_ <i>~</i> /A
Odor Threshold NA Ret/Nouse Ji	
tie Ret/Mouse TH	LTOLL: ISCA, IKS
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	LTOLA: iscam /KS
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and walliam	1 (12 kg) (14 kg)
	
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Hazard Evaluation of Chemicals Region V - Chicago

Chemical Name	sbestos	_ Date	
DOT Classification	nn	Job Number	·
CAS Number133	2-21-4		
NIOSH/OSHA Pocket Gu (ACGIH TLV Booklet)	ide Merck Index Ha oxic & Hazardous Saf	de MSDS if approprate. zardline (Chris(vol.II ety Manual SAX Aldri ion of asbestos abatem	D ch
Chemical Formula Variable Physical State Soli Flash Point N/A Specific Gravity/Der Solubility-water:	ries MW N/A d Boiling Poi Flammable Limits sity varies Odor	, Amosite, Crocidolite, _Ionization Potential_ ntN/A Freezing Poi _N/A Vapor Pressur /Odor ThresholdN/A lity-other:N/ANone	N/A nt_N/A e_N/A
STEL N/A Toxicity Data: (Indi Human; IHL TDLo Rat/Mouse; IHL TDLo Aquatic: Carcinogen Known I vute(s) of exposure	-TWA (ACGIH) 0.2-2.0 _ Ceiling Limits _ cate duration of stu ::2.8fibers/cc Dermal ::100mg/kg:ETA Dermal Other:	Fibers/CC PEL (OSHA)O. N/A IDLH N dy) N/A Oral N/A Oral Reproductive Toxin apply): Inhalation In	N/A gestion
Respirators: HEPA fill Protective Clothing:	Full body disposable	ective measures) ng up tooil fibers/cc; covering, inc.hood,gl ece respirator wear ey	oves & boots
DISPOSAL, FIRE and SI		odes;see attached shee	
Disposal approved la Decomposition Produc		A Leaks&Spills_	vacume
FIRST AID: ING: None IHL: None Eye/Skin: N/A	The state of the s		100 mm
SYMPTOMS: acute(immediate) exp	osure effects: No	ne reference	
	othelioma and carcin	estosis, lung cancer & ogenic properties grea	
eproductive effects	: N/A		

Ashestos

EMERGENCY AND FIRST AID INSTRUCTIONS

Inhalation: Hove person to fresh air. Clean any fibers away from nose and mouth. Seek medical attention, if necessary.

Skin: Wash material from skin without inhaling fibers. Remove any soiled clothing.

Eyes: Wash with water for 15 minutes. Seek medical attention, if necessary.

Incestion: Seek medical attention, if necessary.

FIRE AND EXPLOSION INFORMATION

General: Non-flammable.

REACTIVITY

General: Stable.

PROTECTIVE HEASURES

- Hota: Several New York State agencies regulate aspects of the asbestos removal industry. The Department of Environmental Conservation addresses issues of transportation and disposal of materials containing asbestos. The Departments of Health and Labor are developing regulations for licensing of contractors, certification of workers and establishment of criteria for training and work practices in the asbestos removal industry. For more information, please contact the appropriate state agency.
- Storage and Randling: Use closed, heavy-gauge, impervious plastic bags in sealed rigid containers protected from physical damage. Do not smoke, eat, or drink in the work area.
- Engineering Controls: To reduce the formation of dust, asbestos-containing materials should be wer down, before being disturbed, with water that contains a surfactant or wetting agent (e.g. detergent). All hand-operated and power-operated tools which may release asbestos fibers in excess of OSBA standards must be supplied with local exhaust systems. Isolation, enclosure and dust collection methods should be used. Showers, sinks and eye wash stations should be readily available.
- Protective Clothing (Should not be substituted for proper handling and engineering controls): Fiber concentrations in excess of 0.2 fiber/cubic centiseter require the use of special clothing (coveralls, head coverings, gloves and foot coverings), change rooms with two separate lockers (one for street clothes and one for work clothes) and a medical surveillance program. Employers are urged to contact their regional OSHA offices for more detailed information on the requirements of the revised OSHA standard for occupational exposure to asbestos.
- Protective Equipment: For levels up to 2 fibers/cubic centimeter use an air-purifying respirator with high-efficiency filters. For levels up to 10 fibers/cubic centimeter use the above with a full facepiece. For levels up to 20 fibers/cubic centimeter use a powered air-purifying respirator with high-efficiency filters or a supplied-air respirator operated in a continuous-flow mode. For levels up to 200 fibers/cubic centimeter use a supplied-air respirator with a full facepiece, operated in pressure demand mode. For levels above 200 fibers/cubic centimeter use a supplied-air respirator with a full facepiece, operated in pressure demand mode and equipped with an auxiliary positive pressure self-contained breathing apparatus.

PROCEDURES FOR SETLLS AND LEARS

Wearing protective equipment, use a vet-mop or high-efficiency vacuum to clean area. Avoid blowing, dry-brushing and dry-mopping, all of which may raise dust levels. For information on proper storage and disposal of wastes containing asbestos, contact your regional office of the New York State Department of Environmental Conservation.

For more information:
Contact the Industrial Bygienist or Safety Officer at your worksite or the New York State
Department of Bealth, Bureau of Toxic Substance Assessment, 2 University Place, Albany,
New York 12203.

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_	ADOPTED VALUES				
~	TWA		STEL		
Substance [CAS #]	β pm ∗ ^j	mg/m ₃₂₁	bbu.,	mg/m²²	
Soluble salts (1979)	_	2	-	_	
Alkyls (NOC†) (1979)		2	-	_	
Aluminum oxide (1344-28-1).					
as Al (1986)	_	10m		-	
4-Aminodiphenyl					
[92-67-1] - Skin (1972)	_	A1	-	_	
2 Aminoethanol, see Ethanolamii	ne				
2-Aminopyridine					
[504-29-0] (1986)	0.5	2.0		-	
3-Amino 1,2,4-triazole, see Amit					
-Amitrole (81-82-5) (1986)	_	0.2	_	_	
Ammonia (7664-41-7) (1976)	25	17	35	24	
	20	• • • • • • • • • • • • • • • • • • • •	~	• •	
Ammonium chioride fume		10		20	
(12125-02-明 (1976)	_	10	_		
Ammonium perfluorooctano-				1	
ate [3825-26-1] (1988)	-	0.1	_	-	
Ammonium suffamate		40	•		
[7773-06-0] (1986)	-	10	_	_	
Amosite, see Asbestos					
n-Armyl acetate [628-63-7] (1987)	100	532		_	
sec-Amyl acetate			•		
[826-38-0] (1987)	125	665	_	_	
Aniline 162-53-31 &		. '			
homologues — Skin (1986)	2	7.6	_	_	
Anisidine (29191-52-4) (D-, D-					
Isomers) - Skin (1977)	0.1	0.50	_	-	
Antimony (7440-36-0) &					
compounds, as Sb (1990)	_	0.5		_	
=Antimony trioxide [1309-84-4]		7.7			
Handling and use, as Sb					
	_	0.5	_	_	
(1978) Production (1980)	_	A2	_		
	_	0.3	_		
ANTU (86-88-4) (1986)		0.5	_	_	
Argon [7440-37-1] (1981)		_	_		
-Arsenic [7440-38-2] &					
soluble compounds,					
as As (1960)	-	0.2		-	
Arsenic trioxide production					
[1327-53-3] (1980)		A2	-	~	
•Arsine [7784-42-1] (1977)	.0.05	0.16	-	-	
■Asbestos ^m					
 Amosite (12172-73-5) (1980) 		0.5 fiber/	cc, A1		
• Chrysotile [12001-29-5] (1980)		2 fibers	⊌cc, A1		
 Crocidolite (12001-28-4) (1980) 		0.2 fiber/	cc, A1		
• Other forms (1980)		2 fibers	Joe A1		

		ADOPTED VALUES				
	•	TWA		STEL		
Substance [CAS	CAS 17	ppm"	mb\m ₂₀	bbiu -	und\sus	
Asphalt (petroleum) fum	es					
(8052-42-4) (1987)		_	5	_	_	
Atrazine (1912-24-9) (1983)		_	5			
·Azinphos-methyl			•			
[86-50-0] — Sldin (1986)		·	0.2	_	<u>.</u>	
Barium (7440-39-3), solubi	e				_	
compounds, as Ba (19)	מז		0.5	_		
Barium suffate 17727-43-77	-					
(1986)			1010	_	_	
Benomyl [17804-35-2] (1988)	0.84	10	_	_	
Benzene (71-43-2) (1987) .		10.A2	32.A2	_		
Benzidine (92-87-5) - Skin					Ξ,	
(1982)		-	A1	_		
p-Benzoquinone, see Quine	one		• • • • • • • • • • • • • • • • • • • •		_	
Benzoyl peroxide (94.36.0)						
(1977)		_	5	_	_	
Benzo(a)pyrene [50-32-8] (19	776)	_	A2	_	_	
Benzyl chioride (100-44-7) (19	77)	. 1 .	5.2	_		
Beryllium and compounds	3 ,	1			_	
as Be [7440-41-7] (1979) .		- 0.	002,A2	_		
Biphenyi 192-52-4} (1987)		0.2	1.3	_		
Bismuth telluride						
[1304-82-1] (1986)		_	10	_		
Se-doped (1988)		<u> </u>	5	_	_	
Borates, tetra, sodium sai	its				_	
[1303-96-4]						
Anhydrous (1977)	• •	_	1	_	_	
Decahydrate (1977)	• •	-	5	_	-	
Pentahydrate (1977)	• •	_	1			
Boron oxide (1303-86-2) (190	96) i	-	10	_		

identified in the BEI documentations for methemoglobin inducers (for which methemoglobin is the principle toxicity) and organophosphorus cholinesterase inhibitors are part of this notation.

Substance identified by other sources as a suspected or confirmed human carcinogen. See the compilation in the Appendix to the Documentation of TLVs. pp. a space... A oracl.

A-5(86)-A-9(86).

Substance for which OSHA and/or MIOSH has a Permissible Exposure Limit (PEL) or a Recommended Exposure Limit (REL) lower than the TLV. NOC = not otherwise classified.

⁽d) Simple asphyxiant; see definition in the "introduction to the Chemical Substances."

(e) The value is for total dust containing no asbestos and < 1% crystalline silical (f) Fibers longer than 5 µm and with an aspect ratio equal to or greater than 3:1 as determined by the membrane fister method at 400-450x magnification (4 mm objective) phase contrast illumination.

Capital letters A & B refer to Appendices; C denotes ceiling limit.

Mentifies substances for which there are also BEIs (see BEI section). Substances identified in the BFI documentations for methemostobin inducers (for which

6	į
3	í
0,10	
1	

Animal rendering
processes
(Occupational
Hazard Assessment
March 1981)

OSHA PEL's or NIOSH REL's for specific hazards are applicable

0.5 mg Sb/m³ TWA

Irritation; cardiovascular

Mechanical injury: burns:

heat stress; infections

from biologic agents; chemical hazards

Guidelines for engineering controls and work practices to reduce injury and illness presented

Antimony (September 1978)

Arsenic.

0.5 mg Sb/m³, 8-hr TWA

Lung and lymphatic

and lung effects

cancer; dermatitis

Chest x ray, pulmonary function testing, and electrocardiogram required

inorganic (September 1974; revised June 1975: reaffirmed July 1982 as part

10 μg As/m³, 8-hr TWA 29 CFR 1910.1018

2 μg As/m³ ceiling (15 min)

Chest x ray required

of NIOSH testimony at OSHA hearing)

August 1979)

Arsine

(CIB

0.2 mg/m³ (0.05 ppm), 8-hr TWA

.29 CFR 1910.1001

 $2 \mu g As/m^3 (0.002 mg As/m^3)$ ceiling (15 min)

Sudden extensive hemolysis

Workers to be warned of working with arsenic compounds in presence of freshly formed hydrogen

Asbestos (January 1972;

over 5 μ m in length, 8-hr TWA; Action level revised of 100,000 fibers/m³, December 1976; 8-hr TWA revised

March 1984 as part of NIOSH

testimony at Congressional heering.

200,000 fibers/m³. Ca 100,000 fibers/m³, over 5 μ m in length, 8-hr TWA in a 400-liter air sample

Lung cancer; mesothelioma; asbestosis

Chest x ray and pulmonary function testing required

7 ethanol about

iro-4-hydroxy-3H,4H)-dione; olc acid 12.6 ₩1 262.29. C ed. unexpanded ially Artemisia ormseed"). on of santonin. : Chem. Zenie. Soc. 80, 4869 (1960). Steren-235. Synthesia thedron Letters

Bitter taste. ", bp_{ts} 260". 95% ethanol). 3 ml boiling in petr ether.

lea pinnatifida the treatment

gods; asafordation of the foetida L. F. Umbelliferae. 6-17% ethearesinotannol Three saletida resin (methylthio)vi 3-(methylve pesticidal Bézanger 663 (1938); SR); 42, 2557 three sullurand configure. P. Vermeer. Acta Chem. n. Bol 4, 313 13A, 382-386

lic-like odor: r, it makes a an 50% alco-

flavoring for 1 2" anapenr۲. peciorani. inative, and

ulfonic acid minul'onate

Trihydrate, reddish-white, odorless powder. Dec at about One gram dissolves in 1.5 ml water, 3 ml alc. USE: Has been used instead of gypsum to plaster wines.

837. Asarinia, Episesamin. C₁₈H₁₈O₄; mol wt 354.34, C 67.79%, H 5.12%, O 27.09%. Naturally occurring t-form known as xanthazylin-S in early literature. Isoin from Xanthazylum clava-herculis L. (X. carolinianum Lam.), Rusaceae: Awrum sicholdi Miguel var. seulensis Nakai. A. blumei Duch., Aristolochiacene: Colton, Am. J. Pharm. 1890, 191; Pherhardt, Ibid. 231; Giordin, J. Am. Chem. Siv. 28, 1649 (1906); Weteste et al., Arch. Pharm. 269, 384 (1931); Huang-Minlon, Rev. 70, 951 (1937); Kaku et al., C.A. 32, 9090! (1938). Structure: Dieterle, Schwenger, Arch. Pharm. 277, 33 (1939). Synthesis of di-form: Beroza, Schechter, J. Am. Chem. Soc. 78, 1242 (1956); Freudenberg, Fischer, Ber. 89, 1230 (1956). Diastereoisomeric with sesamin, (q.v.). Stereochemistry of the d-form: Freudenberg, Sidhu, ibid. 94, 851 (1961).

I-Form, crystals from alc, mp 121°. [a] = 118.6° (chloroform). Practically insol in water; slightly in cold, freely in boiling methanol, alcohol, chloroform, acctone, benzene, Antitubercular activity: Ramaswamy, Naturalis, 44, 380

dl-Form, mp 134-135°.

838. Asarones. 1,2,4-Trimethoxy-5-(1-propenyl)benzene; 2.4.5-trimethoxy-1-propenylbenzene; asarin; asarum camphor; asarabacca camphor: C19HMO3; mol wt 208.25. C 69.21%, H 7.74%, O 23.05%. From root of Asarum europaeum L., Aristolochioceae by distillation with water. Also found in the ethercal oils of A. europacum and A. artfolium L. Aristolochiaceae and in Acorus calamus L. Araceae. Occurs in nature as a mixture of two isomeric forms. a-asarone being the (E)- or trans-isomer, \$-asarone, the (7.1- or the fell or trans-isomer, B-astrone, the 723-or cir-isomer. The unqualified term asarone is often used synonymously with a-asarone. Isoln: Cattermann, Eggers, Rev. 32, 289 (1899). Early syntheses: Seshadri, Thiruvengadam. Proc. Indian Acod. Sci. 32A, 110 (1950): Sharma, Dandiya, Indian J. Appl. Chem. 32, 236 (1969). Stereochemistry of isomers: Baxter et al. Can. J. Chem. 40, 154 (1962). Insect chemosterilant activity of B-asarone: B. P. Saxena et al. Nature 270, 313 (1977). el. Nature 270, 512 (1977); see also O. Motolesy et al., Z. Naturforsch. 358, 1449 (1980). Stereospecific synthesis of Assarone: M. T. S. Hsia et al., 177th Am. Chem. Soc. Meet. (Honolulu, April 1979), Abstracts of Papers, PEST 98. Synthetic and HPLC study of a- and B-asarone: L. Gracza. Arch. Pharm. 314, 972 (1981).

ether, glacial acetic acid, carbon tetrachloride, chloroform, petr ether

Merck Marual

839, Asarum. Wild ginger: Canada snakeroot: Indian ginger. Dried rhizome and roots of Azarum canadense L., Aristolochiacear. Habit. Canada to N. Carolina and Kansas. Constit. Acrid resin, arom. volatile oil, methyl eugenol.

840, Asazol, a+(Acetylamino)+4-fbis(2-chloroethyl)ami+ noj-N-2-thiazolylbenzeneproponamide; a-acetamido-p-fhis-(2-chloroethyl)aminoj-N-2-thiazolylhydrocinnamamide; (thiazolyl-2)amide of N-acetylaarcolysine; 2-[p-[his(2-chlorowinyimminoj-N-acetylphenylalanoyljaminothiazole. Cap-H₂₂Cl₃N₂O₃S; mol wt 429.38. C 50.35%, H 5.17%, Cl 16.51%, N 13.05%, O 7.45%, S 7.47%. Prepri: Berlin, Brouvitskaya. J. Gen. Chem. 1888, 30, 347 (1960). Pharmacology: S. A. Degieva et al., Firmakol. Tokskol. 31, 470 (1968). C.A. 69, 754536 (1968).

Crystals from abs alc. mp 165.5-166.5% THERAP CAT: Antineoplastic.

841, Ashestos. Amianthus. Ethrous mineral silicates. R41, Ashestos, Amianthus, Fibrosis mineral silicates, thirdeal listo two groups: wepentine and amphibate. Most common form in chepotille [Mg₄(Si₄O₁₀)(O11)₂], the fibrous form of serpentine (see also magnessum silicates). Subdivisions of amphibole are anthophyllite [(Mg,Fe)₂(Si₄O₂)XOH)₂] (low fron content): amosite [Fe₂Mg₃(Si₂O₂)XOH)₂]; crocidolite (Ca₂(Mg,Fe)₂(Si₄O₂)(XOH)₂]: tremotite [Ca₂Alf₂(Si₂O₂)(OH)₂]: crocidolite or blue asbestos [Na₂Fe₃*Fe₃*Si₄O₂)(OH)₂]. Reviews of carcinogenicity and toxicology: T. J. Haley, J. Pharm. Sci. 64, 1435-1449 (1975): IARC Monographs 14, 1-106 (1977); Arch. Pathol. Lah. Med. 106, 541-596 (1982). Review of properties and industrial applica-596 (1982). Review of properties and industrial applica-tions: W. C. Streib in Kirk-Othmer Encyclopedia of Chemi-cal Technology vol. 3 (Wiley-Interwience, New York, 3rd ed., 1978) pp 267-283.

Fire resistant fibers. Chrysotile attacked by acid; amphi-

boles, acid resistant.

Caution: Occupational exposure to the dust can result in mesothelioms, squamous cell carcinoms and adenocarcinoma of the lung after a long latent period. This substance has been listed as a carcinogen by the EPA: Second Annual Repair on Carcinogens (NTP RI-43, Dec. 1981) pp 37-41. USE: Heat-resistant insulators, cements, furnace and hot e coverings, inert filler medium (laboratory & commerial), fireproof gloves, clothing, brake linings.

842, Ascaridole. 1-Methyl-4-(1-methylethyl)-2,3-di-oxahleyelof2.2:2loci-5-ene; 1,4-peroxido-p-menthene-2; Ascarisin. C_mH_MO₃: mol wt 168:21. C 71.39%, H 9.59%, O 19.02%. An organic peroxide which constitutes 60-80% of oil of chenopodium. Synthesic from a-terpinene by treatoil of chenopodium. Synthesis from a terpinene by treat-ment with oxygen chlorophyfi, and light: Schenck, Ziegler; Naturwiss 1944, 157. Purification: Beckett et al., J. Pharm. Pharmacol. 7, 55 (1955).

Liquid: unstable: prone to explode when heated or when treated with comme acab. In Cotton de-

Soluble in concentrated hydrochloric acid and most organic liquids; decomposed by water. Fumes in moist air. B.p. 130.5°C; f.p. -18°C; sp. gr. 2.163 (14/4° C); noncombustible.

Derivation: (a) By action of chlorine on arsenic; (b) by distillation of arsenic trioxide with concentrated hydrochloric acid.

Grades: Technical.

Containers: Bottles; 20-, 55-gal drums.

Hazard: Highly toxic; strong irritant to eyes and skin. Uses: Intermediate for organic arsenicals (pharmaceuticals, insecticides); ceramics.

Shipping regulations: (Rail, Air) Poison label.

arsenic trioxide (crude arsenic; white arsenic; arsenious acid; arsenious oxide; arsenous anhydride)

Properties: White, odorless, tasteless powder; slightly soluble in water; soluble in acids and alkalies; soluble in glycerol; sp. gr. 3.865. Sublimes on

Derivation: Smelting of copper and lead concentrates. Flue dust, to which pyrite or galena concentrates are added, yields As2O3 vapor. Condensation gives product of varying purity called crude arsenic (90-95% pure). A higher-purity oxide called white arsenic is obtained by resubliming the crude As₂O₃ (99+% pure).

Containers: Drums; barrels; cartoads.

Hazard: Highly toxic by ingestion and inhalation. A known carcinogen. Tolerance (as As), 0.05 mg per cubic meter of air.

Uses: Pigments, ceramic enamels, aniline colors; decolorizing agent in glass; insecticide; rodenticide; herbicide; sheep and cattle dip; hide preservative; wood perservative; preparation of other arsenic

Shipping regulations: (Rail, Air) Poison label.

arsenic trisulfide (arsenious sulfide; arsenic sulfide, yellow; arsenous sulfide; arsenic tersulfide) As₂S₁. Properties: Yellow crystals or powder, changes to a red form at 170°C; sp. gr. 3.43; m.p. 300°C; insoluble in water and hydrochloric acid; dissolves in alkaline sulfide solutions and in nitric acid.

Derivation: Occurs in nature as the mineral orpiment. May be precipitated from arsenious acid solution by the action of hydrogen sulfide.

Grades: Technical; pigment; single crystals.

Hazard: Highly toxic by inhalation and ingestion. Uses: Pigment; reducing agent; pyrotechnics; glass used for infrared lenses; semiconductors; hair removal from hides.

Shipping regulations: (Rail, Air) Arsenical compounds, n.o.s. Poison label.

arsine (arsenic hydride) As Hs. Properties: Colorless gas; f.p. -113.5; b.p. -62°C; decomposes 230° C; soluble in water; slightly soluble in alcohol, alkalies.

Derivation: Reaction of aluminum arsenide with

water or HCl; electrochemical reduction of arsenic compounds in acid solutions.

Grades: Technical; 99% pure or in mixture with other gases.

Containers: Steel cylinders.

Hazard: Highly toxic. Tolerance, 0.05 ppm in air. Use: Organic synthesis; military poison gas; doping agent for solid state electronic components.

Shipping regulations: (Rail) Poison Gas and Flammable Gas labels. Not acceptable passenger (Air) Not acceptable.

arsphenamine. A specific for syphilis originally developed by Ehrlich, but no longer in use. It was a derivative of arsenic and benzene. See Ehrlich.

"Artic." Trademark for refrigeration grade of methyl chloride (q.v.).

artificial cinnabar. See mercuric sulfide, red.

artificial snow. A copolymer of butyl and isobutyl methacrylate, often dispersed from an aerosol bomb or other atomizing device; used in decorative window displays, etc. Man-made snow is crystallized water vapor made by mechanical means.

"Arubren CP."470 Trademark for a highly chlorinated aliphatic hydrocarbon compound used in rubber compounds to decrease flammability of vulcanizates.

arylalkyl. A compound containing both aliphatic and aromatic structures, e.g., alkyl benzenesulfonate. Also called aralkyl.

aryl. A compound whose molecules have the ring structure characteristic of benzene, naphthalene, phenanthrene, anthracene, etc., i.e., either the sixcarbon ring of benzene or the condensed six-carbon rings of the other aromatic derivatives. For example, an aryl group may be phenyl, C.H. or naphthyl (C10 H2). Such groups are often represented in formulas by R. See also alkyl.

As Symbol for arsenic.

as.- Abbreviation for asymmetrical; same as uns-(q.v.).

ASA. Abbreviation for acrylic ester-modified styreneacrylonitrile terpolymer. See also "Luran S."

asarone. See 2,4,5-trimethoxy-1-propenylbenzene."

asbestine. A soft, fibrous magnesium silicate used as a filler in paper, rubber, and plastics.

grasbestos. A group of impure magnesium silicate minerals which occur in fibrous form. Colors: white, gray, green, brown. Sp. gr. 2.5. Noncombustible.

(1) Serpentine asbestos is the mineral chrysotile, a magnesium silicate. The fibers are strong and flexible so that spinning is possible with the longer fibers. A microcrystalline form trademarked "Avibest" has been developed, See a dest a construction and the first of the sections.

Alexander Continue

wifter racke by

(2) Amphibolof magnesium. fibers are genera are more resista serpentine asbes: (3) Amosite. Occurrence: Yuko zona, California. Hazard: Toxic by active carcinogen ∞,>5µ m in leng Uses: Fireproof fat compositions; ek filler; chemical fil and plastics; com phragm cells.

ascaridole Cio His C Properties: A liquib.p. 84°C(5 mm); s index n 20/D 1.47 Derivation: By vacu aiL

Hazard: Strong oxid to 130° C or in cont ingestion

Uses: Initiator in pol Shipping regulation n.o.s.; (Rail) Organ able passenger. (Air

"Ascarite," A tra asbestos absorbent, sorption of carbon c carbon in iron and method, and other a Grades: Mesh 8-20, 2

escorbic acid (Lasco

A dietary factor w of man to prevent increases resistance to sumably acts as an o: the cell. It is readily not be exposed to air

before use. Properties: White cryst needles); m.p. 192°(soluble in alcohol; in: benzene, petroleum et when dry. Nontoxic. Sources: Food source: citrus fruits, tomatoes tables.

Commercial source: S fermentation of sorbite The state

J. 25.00

A Date na a la representa

mical Dactonary

(2) Amphibole asbestos includes various silicates of magnesium, iron, calcium, and sodium, The fibers are generally brittle and cannot be spun but are more resistant to chemicals and to heat than serpentine asbestos.

(3) Amosite.

Occurrence: Yukon, Quebec, Vermont, Mexico, Arizona, California, North Carolina, Africa, Italy. Hazard: Toxic by inhalation of dust particles. An active carcinogen. Tolerance, (all forms) 5 fibers per ∝.>5µ m in length.

Uses: Fireproof fabrics; brake lining; gaskets; roofing compositions; electrical and heat insulation; paint filler; chemical filters; reinforcing agent in rubber and plastics; component of paper dryer felts; diaphragm cells.

exeridole Cio HisO2 1,4-Peroxido-para-menthene-2. Properties: A liquid, naturally occurring peroxide; b.p. 84° C (5 mm); sp. gr. 1.011 (13/15° C); refractive index n 20/D 1.4743.

Derivation: By vacuum distillation of chenopodium

Hazard: Strong oxidizing agent; explodes on heating to 130° C or in contact with organic acids. Toxic by

Uses: Initiator in polymerization; medicine.

Shipping regulations: (Peroxides, organic liquid, a.o.s.; (Rail) Organic Peroxide label. Not acceptable passenger. (Air) Not acceptable.

"Ascarite."16 A trademark for sodium hydrateasbestos absorbent, for rapid and quantitative absorption of carbon dioxide, in the determination of earbon in iron and steel by direct combustion method, and other analyses.

Orades: Mesh 8-20, 20-30.

Ì

escorbic acid (L-ascorbic acid; vitamin C)

A dietary factor which must be present in the diet - 💆 of man to prevent scurvy. It cures scurvy and increases resistance to infection. Ascorbic acid premmably acts as an oxidation-reduction catalyst in the cell. It is readily oxidized; citrus juices should not be exposed to air for more than a few minutes before use

Properties: White crystals (usually plates, sometimes needles); m.p. 192°C; soluble in water; slightly soluble in alcohol; insoluble in ether, chloroform, benzene, petroleum ether, oils, and fats; stable to air when dry. Nontoxic.

Sources: Food source: acerola (West Indian cherry), citrus fruits, tomatoes, potatoes, green leafy vege-

Commercial source: Synthetic product made by fermentation of sorbitol.

Units: One international unit is equivalent to 0.05 mg of L-ascorbic acid.

Grades: U.S.P.; F.C.C.

Containers: Glass bottles; fiber cans; multiwall paper drums.

Uses: Nutrition; color fixing, flavoring, and preservative in meats and other foods; oxidant in bread doughs; abscission of citrus fruit in harvesting; reducing agent in analytical chemistry. The ferric, calcium and sodium salts are available for biochemical research.

ascorble acid oxidase. An enzyme found in plant tissue which acts upon ascorbic acid in the presence of oxygen to produce dehydroascorbic acid. Use: Biochemical research.

ascorbyl palmitate C12 H14O1. A white or yellowishwhite powder having a citrus-like odor. M.p. 116-117° C; soluble in alcohol, animal and vegetable oils; slightly soluble in water. Low toxicity. Derivation: Palmitic and L-ascorbic acids.

Grade: F.C.C: 186-15

Uses: Antioxidant for fats and oils; source of vitamin C; stabilizer; emulsifier.

ase. A suffix characterizing the names of many enzymes, e.g., diastase, cellulase, cholinesterase, etc. However, the names of some enzymes end in -in (pepsin, rennin, papain).

"Aseptoform." Trademark for esters of para-hydroxybenzoic acid, such as "Aseptoform" methyl, "Aseptoform" propyl, "Aseptoform" butyl.

ash (1) In analytical chemistry, the residue remaining after complete combustion of a material; it consists of mineral matter (silica, alumina, fron oxide etc.), the amount often being a specification requirement. (2) The end product of large-scale coal combustion, plentiful mineral in the U.S. It consists principally of fly ash, bottom ash, and boiler ash. Some of its values are recoverable, and there are a number of industrial uses of fly ssh, e.g., in cement products and road fill. See also fly ash.

askarel. A generic descriptive name for synthetic electrical insulating (dielectric) material which when decomposed by the electric arc evolves only nonexplosive gases or gaseous mixtures. Examples are chlorinated aromatic derivatives, particularly pentachlorodiphenyl and trichlorobenzene, but also including pentachlorodiphenyl oxide, pentachlorophenylbenzoate, hexachlorodiphenylmethane, pentachlorodiphenyl ketone, and pentachloroethylbenzene. Nonflammable.

Uses: Insulating medium in transformers; dielectric fluid.

See also dielectric; transformer oil.

A.S.M. Abbreviation for American Society for Metals (q.v.).

Blett Strain.

- Pile 1; Entry 1; Accession No. (CAS) CAS Registry Number: 1332-21-4 (ASBESTOS); 12001-29-5 (CHRYSOTILE); 17068-78-9 (ANTHOPHYLLITE); 13768-00-8 (ACTINOLITE); 12172-73-5 (AMOSITE); 12001-28-4 (CROCIDOLITE); 14567-73-8 (TREMOLITE)
- (MAT)
- (SYN) ASBESTOS; SERPENTINE; 7-45 ASBESTOS; AVIBEST C; CASSIAR AK; CALIDRIA RG 144; CALIDRIA RG 600; ANTHOPHYLLITE: AZBOLEN ASBESTOS; FERROANTHOPHYLLITE; AMOSITE: BROWN ASBESTOS; MYSORITE; CROCIDOLITE: BLUE ASBESTOS; TREMOLITE: SILICIC ACID, CALCIUM MAGNESIUM SALT (8:4) (IMEMDT 0013) [THE NATURALLY OCCURRING MINERALS CHRYSOTILE, AMOSITE, CROCIDOLITE, TREMOLITE, ANTHOPHYLLITE, AND ACTINOLITE ARE CLASSIFED AS ASBESTOS IF THE INDIVIUAL CRYSTALLITES OR CRYSTAL PRAGMENTS ARE GREATER THAN 5 MICROMETERS, THE MAXIMUM DIAMETER IS LESS THAN 5 MICROMETERS, AND THE LENGTH-TO-DIAMETER RATIO IS AT LEAST 3. (USPEDU 0002)]
- (TRN) Tradename (Company): ASCARITE (CPCTS* 0001)
- (FML) Chemical Formula: MG3SI2O5(OH)4 (CBRYSOTILE); (MG,FE)78I8O22(OH)2 ANTHOPHYLLITE); (FE, MG) 7SI 8O22 (OH) 2 (AMOSITE); NA2 (MG, PE) 5518022 (OH) 2 (CROCIDOLITE); CA2MG5518022 (OH) 2 (TREMOLITE); CA2 (MG, PE) 5SI 8O22 (OH) 2 (ACTINOLITE) (IMENDT 0003) (AWQCD* 0008)
- Species in Mixture: DEPENDING ON ITS GEOLOGICAL ORIGIN, (SPC) CHRYSOTILE MAY BE CONTAMINATED WITH VARYING AMOUNTS OF MINERALS SUCH AS CALCITE. PARTICLE SIZES OF THESE MINERALS TEND TO BE VERY SMALL. HYDROCARBONS MAY BE ADSORBED ON THE PIBERS, AND IMPURITIES FROM ABRASION OF PROCESSING MACBINERY SUCH AS HAMMER MILLS MAY BE PRESENT. (IMEMDT 0013)
- Common Uses: IN COMBINATION WITH OTHER TEXTILES POR FIREPROOF AND (USS) HEAT RESISTANT CLOTH. BY ITSELF OR COMBINED WITH OTHER MATERIALS FOR VALVE PACKINGS, GASKETS, BOILER LAGGING AND PIPE COVERING, PROTECTIVE CLOTHING, SHIELDING MATERIALS, AND AS AUTOHOTIVE BRAKE LININGS AND CLUTCH FACINGS. IN BUILDING INDUSTRY, TO MANUFACTURE ASBESTOS CEMENT PRODUCTS, HEAT INSULATING, AND PIREPROOPING MATERIALS. ABOUT 95% OF COMMERCIAL ASBESTOS IS CHRYSOTILE. (AIHG** 0001) (AWQCD* 0008) TREMOLITE, ACTINOLITE, AND ANTHOPHYLLITE HAVE LITTLE COMMERCIAL IMPORTANCE. (USPEDU 0002
- Containers: CPR--ASBESTOS CEMENT, PLASTIC, ASPHALT, RESINS, OR (CON) MINERAL ORE; ASBESTOS-CONTAINING MANUFACTURED PRODUCTS; AND MATERIALS OR PRODUCTS WHOSE COMMERCIAL VALUE IS NOT DEPENDENT ON THEIR ASBESTOS CONTENT ARE NOT SUBJECT TO THE POLLOWING REQUIREMENTS. COMMERCIAL ASBESTOS MAY BE TRANSPORTED IN RIGID, LEARTIGHT PACKAGING SUCH AS NETAL OR FIBER DRUMS, PORTABLE TANKS, HOPPER-TYPE RAIL CARS, OR HOPPER-TYPE MOTOR VEHICLES: BAGS OR OTHER NON-RIGID PACKAGING ARE SUITABLE WHEN TRANSPORTED IN CLOSED PREIGHT CONTAINERS, MOTOR VEHICLES, OR RAIL CARS THAT ARE LOADED BY AND FOR THE EXCLUSIVE USE OF THE CONSIGNOR AND UNLOADED BY THE CONSIGNEE. OTHERWISE, BAGS OR OTHER NON-RIGID PACKAGINGS MUST BE DUST AND SIFT-PROOF. IP TRANSPORTED OTHER THAN BY PRIVATE CARRIER BY HIGHWAY, SUCH NON-RIGID PACKAGES SHOULD BE PALLETIZED AND UNITIZED BY METHODS SUCH AS SHRINK-WRAPPING IN PLASTIC FILM OR WRAPPING IN FIBERBOARD SECURED BY STRAPPING. IF SECURED AND SUPPORTED ADEQUATELY TO PREVENT SHIFTING, PALLETS NEED NOT BE USED DURING TRANSPORT BY VESSEL FOR LOADS WITH SLINGS UNITIZED BY METHODS SUCH AS SHRINK WRAPPING. INSTEAD OF PALLETIZING OR UNITIZING, BAGS OR OTHER NON-RIGID PACKAGING THAT ARE DUST AND SIFT-PROOF MAY BE PACKED IN STRONG
 OUTSIDE PIBERBOARD OR WOODEN BOXES. (49CFR* 0001) IATA—ASBESTOS

PIBERS MUST BE PACKED IN RIGID, AIRTIGHT PACKAGING SUCH AS METAL OR FIBER DRUMS OR IN BAGS OR OTHER NON-RIGID PACKING THAT ARE DUST OR SIFT-PROOF IN STRONG OUTSIDE FIBERBOARD OR WOODEN BOXES. (RARADS 0002) IMCO--EFFECTIVELY CLOSED, SIFT-PROOF RECEPTACLES HAVE NO RECEPTACLE NET AND PACKAGE GROSS WEIGHT LIMITS, BUT THE PACKAGE GROSS WEIGHT FOR MULTI-PLY, SIFT-PROOF BAGS IS 50 KG. (85EZAO 0001)

- (HND) General Handling Procedure: INSOFAR AS PRACTICABLE, ASBESTOS SHALL BE HANDLED, MIXED, APPLIED, REMOVED, CUT, SCORED, OR OTHERWISE WORKED IN A WET STATE SUFFICIENT TO PREVENT THE EMISSION OF AIRBORNE FIBERS IN EXCESS OF THE PRESCRIBED EXPOSURE LIMITS. NO ASBESTOS CEMENT, MORTAR, COATING, GROUT, PLASTER, OR SIMILAR MATERIAL CONTAINING ASBESTOS SHALL BE REMOVED FROM BAGS, CARTONS, OR OTHER CONTAINERS IN WHICH THEY ARE SHIPPED, WITHOUT BEING EITHER WETTED, OR ENCLOSED, OR VENTILATED SO AS TO PREVENT EFFECTIVELY THE RELEASE OF AIRBORNE ASBESTOS PIBERS IN EXCESS OF THE PRESCRIBED LIMITS. (29CFR* 0001) MIX ASBESTOS CEMENT, MORTAR, COATINGS, GROUT, AND PLASTER IN CLOSED BAGS OR OTHER CONTAINERS. COLLECT AND DISPOSE OF ASBESTOS WASTE AND SCRAP IN SEALED BAGS OR OTHER CONTAINERS. USE VACUUM CLEANERS OR WET CLEANING METHODS TO CLEAN UP ASBESTOS DUST. DO NOT DRY SWEEP. (NIOAS* 0001)
- (PRD) Production Sites: AMATEX CORPORATION, 1032 STANBRIDGE STREET, NORRISTOWN (MONTGOMERY COUNTY), PA 19401, MID NO. 191, EPA REGION 03; B.F. GOODRICH COMPANY, 500 SOUTH MAIN STREET, ATTN: RONALD J. SCHAEPER, AKRON (SUMMIT COUNTY), OH, 44318, NID NO. 3356, EPA REGION 05, DUNSNO 004467452; ALLIED CHEMICAL CORPORATION, 2829 GLENDALE AVENUE, TOLEDO (LUCUS COUNTY), OH, 43614, MID. NO. 3435, EPA REGION 05; LATEX PIBER PRODUCTS, MAIN STREET, BEAVER FALLS (LEWIS COUNTY), NY, 13305, MID NO. 4801, EPA REGION 02, DUNSNO 083278382; DEGUSSA CORPORATION, ROUTE 46 AT HOLLISTER ROAD, ATTN: DR. UWE B. BUFE, TETERBORO (BERGEN COUNTY), NJ, 07608, MID NO. 7204, EPA REGION 02; CELLULO COMPANY, 124 M STREET, PRESNO, CA 93721, MID NO. 7283, EPA REGION 09, DUNSNO 053255303; C. TENNANT & SONS & COMPANY OF NEW YORK, 100 PARK COMPANY AVENUE, NEW YORK (NEW YORK COUNTY); 'NY, 10017; "MID-NO. 7563, EPA REGION 02; ICC INDUSTRIES, INC., 720 PIPTH AVENUE, NEW YORK, NY 10019, MID NO. 7630, EPA REGION 02; AMERICAN TAR COMPANY, 1700 NORTH NORTHLAKE WAY, ATTN: W. STALBY, PRESIDENT, SEATTLE: (KING COUNTY), WA 98103, MID NO. 8045, BPA REGION 20: (PROTN# 0002)
- Detection Limit (Lab; Techniques, Ref) (ppm): SEB REVIEW OF (LDL) ANALYTICAL TECHNIQUES IN (AWQCD* 0008) . THE MINERAL NATURE OF THE PIBERS IS GENERALLY DETERMINED WHEN NECESSARY BY ELECTRON 127 BEAM INSTRUMENTATION (MORPHOLOGY, SELECTED AREA ELECTRON DIFFRACTION, AND ELECTRON MICROPROBE ANALYSIS). IN 1980, THE U.S. ENVIRONMENTAL PROTECTION AGENCY PROPOSED AN INTERIA DELECTION AGENCY PROPOSED AN INTERIA DELECTION FOR THE ANALYSIS OF ASBESTOS IN WATER: FILTER 50 TO 500 ML OP A 1-L SAMPLE THROUGH A 0.1 MICRON POLYGARBONATE FILTER: PLACE ASSET OF THE PROPOSED AND SOME OF THE SAMPLE THROUGH A 0.1 MICROSCOPE GRID, COAT THE SAMPLE THROUGH AN ELECTRON MICROSCOPE GRID, COAT THE POLYCARBONATE PILTER WITH CARBON, DISSOLVE THE FILTER, AND SCAN TO TRANSMISSION ELECTRON MICROSCOPY AT 10,000 TO 20,000 MAGNIFICATION. IDENTIFY CHRYSOTILE BY MORPHOLOGY AND AMPHIBOLES BY SELECTED AREA ELECTRON DIFFRACTION. AMPRIBOLE MINERAL SPECIES CAN BE IDENTIFIED USING ENERGY-DISPERSIVE X-RAY ANALYSIS OF EACH PIBER. SENSITIVITY IS APPROXIMATELY 250,000 PIBERS PER LITER OR LESS IN MOST DRINKING WATER SYSTEMS. TWO GENERAL ELECTRON MICROSCOPIC TECHNIQUES ARE USED FOR ANALYSIS OF ASBESTOS IN AMBIENT AIR. ONE INVOLVES DIRECT TRANSPER OF ASBESTOS COLLECTED ON CELLULOSE ACETATE OR POLYCARBONATE PILTERS TO ELECTRON MICROSCOPE GRIDS. THE OTHER INVOLVES DISPERSING THE ASHED RESIDUE BY PHYSICAL MEANS AND ENHESHING IN A NITROCELLULOSE OR CCLLODION FILM FOR MOUNTING ON ELECTRON MICROSCOPE GRIDS OR REFILTERING THROUGH A POLYCARBONATE FILTER. (AWQCD* 0008)

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Standard Codes: SUPERFUND DESIGNATED (HAZARDOUS SUBSTANCES) LIST. NIOSH NO. CI6475000. DOT--HAZARD CLASS ORM-C, NO IDENTIFICATION NO., NO REQUIRED LABEL, PACKAGING EXCEPTION AND SPECIFIC REQUIREMENTS IN 173.1090 (SYNOPSIS IS IN PIELD 14), NO PACKAGE WEIGHT LIMIT ON PASSENGER AIRCRAFT OR RAILCAR OR CARGO ONLY AIRCRAFT. STOW AND HANDLE TO AVOID AIRBORNE PARTICLES. (FEREAC 0017) IMCO--NO LABEL REQUIRED. BLUE ASBESTOS (CROCIDOLITE) IS IMCO CLASS 9 (MISCELLANEOUS DANGEROUS SUBSTANCES), UN2212, PACKAGING GROUP II. WHITE ASBESTOS (CHRYSOTILE) IS IMCO CLASS 9, UN2590, PACKAGING GROUP III. STOW ON OR UNDER DECK. (85EZAO 0001) IATA--CLASS ORA.C. PACKAGES OF ASBESTOS FIBERS SHALL BE Plainly Marked "Ora. Group c--asbestos". No weight limit on PASSENGER OR CARGO AIRCRAFT. (RARADS 0002)

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- (PLM) Plammability: NONFLAMMABLE (CPCTS* .0001)
- (SLC) Solubility Characteristics: SOLUBILITY PRODUCT CONSTANTS FOR VARIOUS CHRYSOTILE FIBERS RANGE FROM 1.08-11 TO 3E-12. (AWQCD* 0008) 2.85 TO 3.1 (ANTHOPHYLLITE); 2.55 (CHRYSOTILE); 3.337 (CROCIDOLITE); 3.45; 3.43 (AMOSITE) (AWQCD* 0008) (IMEMDT 0003)
- Persistency: ASBESTOS IS REPRACTORY IN THE AQUATIC ENVIRONMENT. BASED ON LABORATORY EXPERIMENTS, ASBESTOS IN WATER WILL STAY IN SUSPENSION FOR A LONG TIME. IT WILL REHAIN IN THE WATER COLUMN UNTIL SURFACE CHARGE COAGULATION OR CHANGES IN PLOW REGIME ALLOW IT TO SETTLE OUT OF THE SYSTEM. ASBESTOS PIBERS RELEASED TO THE AQUATIC ENVIRONMENT FROM THE DUMPING OF TACONITE TAILINGS INTO LAKE SUPERIOR HAVE TRAVELLED AT LEAST 75 MILES FROM THEIR POINT OF RELEASE (DETECTED IN DRINKING WATER IN DULUTH, MN). THE PIBERS ARE BEING COAGULATED AND SEDIMENTED IN THE WESTERN PART OF THE LAKE NEAR THE TAILING DELTA. IF THIS WERE NOT OCCURRING, THE CALCULATED CONCENTRATION WOULD BE 3.5 MILLION PIBERS PER LITER THROUGHOUT LAKE SUPERIOR. ACTUALLY, ONLY ONE MILLION FIBERS PER LITER ARE PRESENT IN EASTERN LAKE SUPERIOR. THE GREATER THE DISTANCE FROM THE TAILINGS, THE RICHER IN MAGNESIUM THE ASBESTOS BECAME. (USPEDU 0002)
- Potential for Accumulation: MINERAL PIBERS IDENTICAL TO THOSE IN (PFA) THE WATER OF A RIVER WITH KNOWN CHRYSOTILE ASBESTOS CONTAMINATION AND IN LAKE SUPERIOR WATER CONTAMINATED WITH AMPHIBOLE FIBERS WERE POUND IN TISSUE SAMPLES FROM THE RIVER AND LAKE TROUT, BROOK TROUT, AND CHANNEL CATPISH IN THE LAKE. CONCENTRATIONS IN THE MUSCLE WERE APPROXIMATELY ONE-TWELFTH THE AVERAGE WATER CONCENTRATIONS (BY VOLUME). LIVER AND KIDNEY PIBER CONCENTRATIONS WERE 500 TIMES GREATER THAN MUSCLE TISSUE CONCENTRATIONS. (AWQCD* 0008)
- Carcinogenicity: ALL TYPES OF COMMERCIAL ASBESTOS FIBERS TESTED (CAG) IN MICE, RATS, HAMSTERS, AND RABBITS HAVE PROVED TO BE CARCINOGENIC. THEY PRODUCED MESOTHELIOMAS AND LUNG CARCINOMAS AFTER INHALATION AND AFTER INTRAPERITONEAL, INTRATRACHEAL, AND INTRAPLEURAL ADMINISTRATION. A HIGH INCIDENCE OPELUNG CANCER IS ASSOCIATED WITH OCCUPATIONAL EXPOSURE. (2CARC* 0001) STUDIES IN Animals and humans supporting the Carcinogenicity of Asbestos PROM INGESTION AND INHALATION ARE CRITICALLY REVIEWED IN AMBIENT WATER QUALITY CRITERIA FOR ASBESTOS" (AWOCD* 0008). EARLIER REVIEWS INCLUDE THOSE PUBLISHED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) IN 1977 (IMEMOT 0013) AND IN 1973 (IMEHDT 0003). IARC SUMMARIZED IN 178 1977 REPORT AS FOLLOWS: THE INCIDENCE OF TUMORS IS INPLUENCED BY THE SIZE AND SHAPE OF THE PIBERS. PIBERS LESS THAN 0.5 .MU.M IN DIAMETER ARE MORE ACTIVE IN PRODUCING TUMORS. OCCUPATIONAL EXPOSURE TO CHRYSOTILE, AMOSITE, ANTHOPHYLLITE, AND MIXED PIBERS CONTAINING CROCIDOLITE HAS RESULTED IN A HIGH LUNG CANCER INCIDENCE. AN INCREASED INCIDENCE OF LUNG CANCER HAS ALSO RESULTED FROM EXPOSURE TO PREDOMINANTLY TREMOLITIC MATERIAL MIXED WITH ANTHOPHYLLITE AND SMALL AMOUNTS OF CHRYSOTILE. PLEURAL AND PERITONEAL MESOTHELIOMAS POLLOW OCCUPATIONAL EXPOSURE TO CROCIDOLITE, AMOSITE, AND CHRYSOTILE. GROUPS EXPOSED TO AMOSITE, CHRYSOTILE, OR MIXED PIBERS CONTAINING CROCIDOLITE SHOW AN EXCESS RISK OF

GASTROINTESTINAL TRACT CANCERS. EXCESS CANCERS OF THE LARYNX HAVE ALSO BEEN OBSERVED IN EXPOSED WORKERS. INDIVIDUALS LIVING IN THE NEIGHBORHOOD OF ASBESTOS PACTORIES AND CROCIDOLITE MINES AND IN HOUSEHOLDS CONTACTING ASBESTOS WORKERS ALBO DEVELOP MESOTHELIOMAS. (IMEMDT 0013) ANTHOPHYLLITE IS THE ONLY COMMERCIAL TYPE OF ASBESTOS NOT ASSOCIATED WITH INDUCTION OF MESOTHELIOMA. CIGARETTE SMOKING ENHANCES THE RISK OF DEVELOPING BRONCHOGENIC CANCER IN WORKERS EXPOSED TO ASBESTOS. NO ASSOCIATION HAS BEEN DEMONSTRATED BETWEEN CIGARETTE SMOKING AND DEVELOPMENT OF MESOTHELIOMA. (SATCA* 0001) OF PERSONS WHO HAVE BEEN HEAVILY EXPOSED TO ASBESTOS, 35 TO 44% MAY DIE OF ASBESTOS-RELATED CANCERS, WHEREAS ONLY ABOUT 8 TO 9% WOULD BE EXPECTED TO DIE OF CANCER HAD THEY NOT BEEN EXPOSED. ASBESTOS-RELATED CANCERS APPEAR TO BE 20 TO 25% LUNG CANCER, 7 TO 10% PLEURAL OR PERITONEAL MESOTHELIOMA, AND 8 TO 9% GASTROINTESTINAL CANCER. (DOSS** 1,81/MEI)

- (MUT) Mutagenicity: THE PASSIVE INCLUSION OF ASBESTOS IN CULTURE MEDIA OF CHO-K1 CHINESE HAMSTER CELLS GAVE BOTH POSITIVE TRANSPORMATION OP MORPHOLOGY AND POSITIVE GENETIC RESPONSES, (THE RESULTS WERE SIMILAR FOR VERY PINE FIBROUS GLASS.) CHEMICALLY LEACHED ASBESTOS FIBERS PRODUCED FEWER ABNORMALITIES THAN DID UNTREATED FIBERS. NO MUTAGENICITY WAS OBSERVED IN TESTS OF SAMPLES OF CHRYSOTILE, AMOSITE, ANTHOPHYLLITE, AND SUPERFINE CHRYSOTILE WITH SEVERAL STRAINS OF ESCHERICHIA COLI AND SALMONELLA TYPHIMURIUM BACTERIA. (AWQCD* 0008)
- (TER) Teratogenicity: TRANSPLACENTAL TRANSFER OF ASBESTOS HAS BEEN REPORTED. (AWQCD* 0008) SCHNEIDER AND MAURER (1977) FOUND NO TERATOGENIC BPPECTS AFTER FEEDING MICE UP TO 143 .MU.G CHRYSOTILE ASBESTOS PER MILLILITER DRINKING WATER. SOME DECREASE IN POSTIMPLANTATION SURVIVAL POLLOWED BLASTOCYST EXPOSURE TO CHRYSOTILE ASBESTOS. (CTAGD8 0001)

Animal Toxicity Text:

Value | Time | Species

|Param.|Route | |Ref.

SEE THE REVIEWS MENTIONED IN FIELD CAG.

Inhalation Limit (Text): REGULATIONS--(INT) OSHA PEL (TWA) 2 FIBERS >5 .MU.M/CM3 (29CFR* 1910) OSHA CEILING 10 PIBERS >5 .MU.M/CH3 (29CPR* 1910) RECOMMENDATIONS --NIOSH CEILING 500000 PIBERS >5 . NU. N/N3/15 MIN (CRSOB* 77-169,77/NIOSH) 74 1. Kish 57 4 NIOSH TWA 100000 PIBERS >5 .MU.M/M3/15 MIN (CRSOB* -169.77/NIOSH) 77-169,77/NIOSE) THE HAMPER HOUSE. ACGIH SUSPECT CARCINOGEN (TLVADN 83/ACGIH)

ACGIH TLV (TWA) 2 PIBERS >5 . MU.M/CM 3 (OTHER PORMS) 0.5 PIBER >5 .MU.M/CH3 (AMOSITE) 2 PIBERS >5 .MU.M/CH3 (CHRYSOTILE) 0.2 FIBER >5 .MU. H/CH3 (CROCIDOLITE) \\ (TLVADM 83/ACGIB) \- UPDATED 3/84. UPDATED 3/84.

- Direct Contact: EXPOSURE TO ANY OF THE FORMS OF ASBESTOS CAN PRODUCE IRRITATION OF THE NOSE, THROAT, AND EYES. (CFCTS* 0001) (DRC)
- General Sensation: SHORT-TERM BREATHING OF HIGH CONCENTRATIONS OF (JNS) ASBESTOS DUST MAY CAUSE TEMPORARY BREATHING DIFFICULTIES. (AWQCD*)
- Recommended Drinking Water Limits (Reference): FOR MAXIMUM (DRR) PROTECTION OF HUMAN HEALTH, THE RECOMMENDED CONCENTRATION OF ASBESTOS IN WATER IS SERO SINCE THERE IS NO RECOGNISED SAFE CONCENTRATION FOR A HUMAN CARCINOGEN. CRITERIA CONCENTRATIONS OF 3,000; 30,000; AND 300,000 PIBERS PER LITER HAVE RISK LEVELS OF ONE ADDITIONAL CASE OF CANCER FOR EVERY TEN MILLION, ONE MILLION, AND TEN THOUSAND PERSONS EXPOSED, RESPECTIVELY. THESE LATTER CRITERIA ARE BASED ON THE ASSUMPTION OF LIFETIME EXPOSURE FROM #25% THE CONSUMPTION OF DRINKING WATER ONLY. THESE RISK ESTIMATES used a linear extrapolation from existing buman data. (awocd* (8000

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- (AHL) Acute Bazard Level: ACCORDING TO A 1980 REVIEW PUBLISHED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY, ACUTE EFFECTS FROM INHALING HIGH CONCENTRATIONS OF ASBESTOS DUST ARE OF LITTLE CONSEQUENCE EXCEPT FOR TEMPORARY BREATHING DIPPICULTY. ACCORDING TO THE 1972 NIOSH CRITERIA DOCUMENT ON ASBESTOS, "THE EFFECT AFTER SEVERAL DECADES OF A ONE-TIME ACUTE DOSE OF LIMITED DURATION WHICH OVERWHELMS THE CLEARING MECHANISM, AND IS RETAINED IN THE LUNGS, MAY BE AS HARMFUL AS THE CUMULATIVE EFFECT OF LOWER DAILY DOSES OF EXPOSURE OVER MANY YEARS OF WORK". (NIOAS* 0001) ACCORDING TO THE INTER-GOVERNMENTAL MARITIME CONSULTATIVE ORGANIZATION, INHALATION OF THE DUST OF ASBESTOS FIBERS IS DANGEROUS AND EXPOSURE SHOULD BE AVOIDED AT ALL TIMES. CROCIDOLITE (BLUE ASBESTOS) SHOULD BE REGARDED AS THE MOST HAZARDOUS TYPE OF ASBESTOS. (85EZAO 0001)
- (CHL) Chronic Hazard Level: Long Continued Inhalation of Asbestos Dust Results in Asbestosis, a form of Pneumoconiosis. The Primary Effect of Inhalation is an interstitial pulmonary fibrosis. The Disease is characterized by Asbestos Bodies in the Lungs and Sputum. Asbestosis can be classified as minimal, moderate, and Advanced Based on X-ray examination. It remains nondisabling for Many Years in Most Cases. An increased incidence of Lung Cancer in Persons with Asbestosis has been reported. (Aihg** 0001)
 - (HEL) Degree of Hazard to Public Health: THERE DOES NOT APPEAR TO BE ANY CANCER RISK TO THE GENERAL PUBLIC FROM ASBESTOS IN AIR, WATER, BEVERAGES, FOOD, OR IN PLUIDS USED FOR ADMINISTRATION OF DRUGS. ASBESTOSIS AND PULMONARY CARCINOMA IN HUMAN BEINGS HAVE CONSISTENTLY BEEN ASSOCIATED ONLY WITH HEAVY INDUSTRIAL CONTACT WITH ASBESTOS. (SATCA* 0001)
- (AML) In Situ Amelioration: SEEK PROPESSIONAL ASSISTANCE FROM EPA'S ENVIRONMENTAL RESPONSE TEAM (ERT), EDISON, NJ, 24-HOUR NO. (201) 321-6660. CONTAIN AND ISOLATE SPILL TO LIMIT SPREAD. CONSTRUCT A CLAY/BENTONITE SWALE TO DIVERT UNCONTAMINATED PORTION OF WATERSHED AROUND CONTAMINATED PORTION. ISOLATION PROCEDURES INCLUDE CONSTRUCTION OF BENTONITE LINED DAMS, INTERCEPTOR TRENCHES, OR IMPOUNDMENTS. IP DISPERSED IN WATER, COLLECT ASBESTOS BY PILTRATION. (85PEAY 0001) CONTAMINATED SOIL OR IMMOBILIZED RESIDUES MAY BE PACKAGED FOR DISPOSAL. CONFIRM ALL TREATMENT PROCEDURES WITH RESPONSIBLE ENVIRONMENTAL ENGINEER AND REGULATORY OFFICIALS.
- (DIS) Disposal Method: ASBESTOS WASTE MAY BE DISPOSED OF IN A CLASS I OR II LANDFILL AS A BULK MATERIAL. (85PEAY 0001) (RMRNR* 0C02) BURN IN AN OPEN FURNACE OR CLOSED PURNACE WITH AFTER BURNER, WHICH PROBABLY DESTROYS MICROCRYSTALLINE STRUCTURES. (THIDD6 0002) ALTERNATIVELY, PACKAGE AND RETURN TO ORIGINATOR FOR RECOVERY AND RESALE.
- (LOC) Probable Location and State of Material: ASBESTOS IS A PIBROUS MAGNESIUM CALCIUM SILICATE THAT OCCURS IN VARIOUS COMBINATIONS AS WHITE, GRAYISH, OR GREENISH MASSES, BITHER COMPACT OR OF LONG SILKY PIBERS, PLAX-LIKE AND READILY SEPARATED. (AIHG** 0001) ASBESTOS INTRODUCED TO SURFACE WATERS WILL REMAIN SUSPENDED UNTIL PHYSICAL DEGRADATION OR CHEMICAL COAGULATION ALLOWS IT TO SETTLE INTO THE SEDIMENT LAYER. (USPEDU 0002)

(HOH) Water Chemistry: MINERALOGICALLY STABLE, ASBESTOS IS NOT SUBJECT TO SIGNIFICANT CHEMICAL OR BIOLOGICAL DEGRADATION IN THE AQUATIC ENVIRONMENT. (USPEDU 0002) CHRYSOTILE IS THE MOST SUSCEPTIBLE ASBESTOS MINERAL TO ACID ATTACK, BEING ALMOST COMPLETELY DESTROYED WITHIN ONE BOUR IN ONE NORMAL HYDROCHLORIC ACID AT 95 DEGREES CELSIUS. THE AMPHIBOLE PIBERS ARE MUCH MORE RESISTANT TO MINERAL ACIDS. UP TO APPROXIMATELY 100 DEGREES CELSIUS, ASBESTOS PIBERS RESIST ATTACK BY OTHER REAGENTS BUT DETERIORATE RAPIDLY AT HIGHER TEMPERATURES. CONCENTRATED POTASSIUM HYDROXIDE AT 200 DEGREES CELSIUS WILL COMPLETELY DECOMPOSE CHRYSOTILE. (AWQCD* 0,008) AT 5 TO 45 DEGREES CELSIUS, THE RATE OF THE DISSOLUTION OF CHRYSOTILE IS DIRECTLY PROPORTIONAL TO THE SPECIFIC SURPACE AREA THE RATE OF DISSOLUTION OF MAGNESIUM OF THE ASBESTOS MINERALS. PROM THE CHRYSOTILE IS RELATED TO THE PH AND IS FASTER WITH SMALLER PARTICLE SIZE. AT 25 DEGREES CELSIUS, THE ACTIVITY PRODUCT FOR CHRYSOTILE IN WATER IS 10E-51.0. IN DISTILLED WATER AND AT BODY TEMPERATURE, AMOSITE AND CROCIDOLITE ARE INERT. AFTER TWO MONTHS OF LEACHING UNDER THESE CONDITIONS, 1,000 .MU.MOL MAGNESIUM PER GRAM ASBESTOS HAD BEEN LEACHED. (USPEDU 0002) ASBESTOS DOES NOT HAVE AN ADSORPTIVE APPINITY POR USUALLY OCCURRING SOLIDS OF NATURAL WATER SYSTEMS. (TRACE MINERALS AND ORGANIC COMPOUNDS HAVE AN APPINITY POR ASBESTOS.) A SUSPENSION OF CHRYSOTILE ASBESTOS IN THE PRESENCE OF TRACE METALS WILL PERSIST UNTIL SUPFICIENT MAGNESIUM HAS LEACHED FROM THE CHRYSOTILE TO DEGRADE THE SUSPENSION. (USPEDU 0002)

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- (HEL) Degree of Hazard to Public Health: THERE DOES NOT APPEAR TO BE ANY CANCER RISK TO THE GENERAL PUBLIC FROM ASBESTOS IN AIR, WATER, BEVERAGES, FOOD, OR IN FLUIDS USED FOR ADMINISTRATION OF DRUGS. ASBESTOSIS AND PULMONARY CARCINOMA IN HUMAN BEINGS HAVE CONSISTENTLY BEEN ASSOCIATED ONLY WITH HEAVY INDUSTRIAL CONTACT WITH ASBESTOS. (SATCA* 0001)
- (AML) In Situ Amelioration: SEEK PROPESSIONAL ASSISTANCE FROM EPA'S ENVIRONMENTAL RESPONSE TEAM (ERT), EDISON, NJ, 24-HOUR NO. (201) 321-6660. CONTAIN AND ISOLATE SPILL TO LIMIT SPREAD. CONSTRUCT A CLAY/BENTONITE SWALE TO DIVERT UNCONTAMINATED PORTION OF WATERSHED AROUND CONTAMINATED PORTION. ISOLATION PROCEDURES INCLUDE CONSTRUCTION OF BENTONITE LINED DAMS, INTERCEPTOR TRENCHES, OR IMPOUNDMENTS. IP DISPERSED IN WATER, COLLECT ASBESTOS BY PILTRATION. (85PEAY 0001) CONTAMINATED SOIL OR IMMOBILIZED RESIDUES MAY BE PACKAGED FOR DISPOSAL. CONFIRM ALL TREATMENT PROCEDURES WITH RESPONSIBLE ENVIRONMENTAL ENGINEER AND REGULATORY OFFICIALS.
- (DIS) Disposal Method: ASSESTOS WASTE MAY BE DISPOSED OF IN A CLASS I OR II LANDFILL AS A BULK MATERIAL. (85FEAY 0001) (RMRNR* 0002) BURN IN AN OPEN FURNACE OR CLOSED FURNACE WITH AFTER BURNER, WHICH PROBABLY DESTROYS MICROCRYSTALLINE STRUCTURES. (THIDD6 0002) ALTERNATIVELY, PACKAGE AND RETURN TO ORIGINATOR FOR RECOVERY AND RESALE.
- (LOC) Probable Location and State of Material: ASBESTOS IS A PIBROUS MAGNESIUM CALCIUM SILICATE THAT OCCURS IN VARIOUS COMBINATIONS AS WHITE, GRAYISH, OR GREENISH MASSES, BITHER COMPACT OR OP LONG SILKY PIBERS, PLAX-LIKE AND READILY SEPARATED. (AIHG** 0001) ASBESTOS INTRODUCED TO SURFACE WATERS WILL REMAIN SUSPENDED UNTIL PHYSICAL DEGRADATION OR CHEMICAL COAGULATION ALLOWS IT TO SETTLE INTO THE SEDIMENT LAYER. (USPEDU 0002)

(HOH) Water Chemistry: MINERALOGICALLY STABLE, ASBESTOS IS NOT SUBJECT TO SIGNIFICANT CHEMICAL OR BIOLOGICAL DEGRADATION IN THE AQUATIC ENVIRONMENT. (USPEDU 0002) CHRYSOTILE IS THE MOST SUSCEPTIBLE ASBESTOS MINERAL TO ACID ATTACK, BEING ALMOST COMPLETELY DESTROYED WITHIN ONE HOUR IN ONE NORMAL HYDROCHLORIC ACID AT 95 DEGREES CELSIUS. THE AMPHIBOLE PIBERS ARE MUCH MORE RESISTANT MINERAL ACIDS. UP TO APPROXIMATELY 100 DEGREES CELSIUS, ASBESTOS Pibers resist attack by other reagents but deteriorate Rapidly AT HIGHER TEMPERATURES. CONCENTRATED POTASSIUM HYDROXIDE AT 200 DEGREES CELSIUS WILL COMPLETELY DECOMPOSE CHRYSOTILE. (AWQCD* 0008) AT 5 TO 45 DEGREES CELSIUS, THE RATE OF THE DISSOLUTION OF CHRYSOTILE IS DIRECTLY PROPORTIONAL TO THE SPECIFIC SURFACE AREA OP THE ASBESTOS MINERALS. THE RATE OF DISSOLUTION OF MAGNESIUM PROM THE CHRYSOTILE IS RELATED TO THE PH AND IS FASTER WITH SMALLER PARTICLE SIZE. AT 25 DEGREES CELSIUS, THE ACTIVITY PRODUCT FOR CHRYSOTILE IN WATER IS 10E-51.0. IN DISTILLED WATER AND AT BODY TEMPERATURE, AMOSITE AND CROCIDOLITE ARE INERT. AFTER TWO MONTHS OF LEACHING UNDER THESE CONDITIONS, 1,000 .MU.MOL MAGNESIUM PER GRAM ASBESTOS HAD BEEN LEACHED. (USPEDU 0002) ASBESTOS DOES NOT HAVE AN ADSORPTIVE APPINITY FOR USUALLY OCCURRING SOLIDS OF NATURAL WATER SYSTEMS. (TRACE MINERALS AND ORGANIC COMPOUNDS HAVE AN APPINITY FOR ASBESTOS.) A SUSPENSION OF CHRYSOTILE ASBESTOS IN THE PRESENCE OF TRACE METALS WILL PERSIST UNTIL SUFFICIENT MAGNESIUM HAS LEACHED FROM THE CHRYSOTILE TO DEGRADE THE SUSPENSION. (USPEDU 0002)

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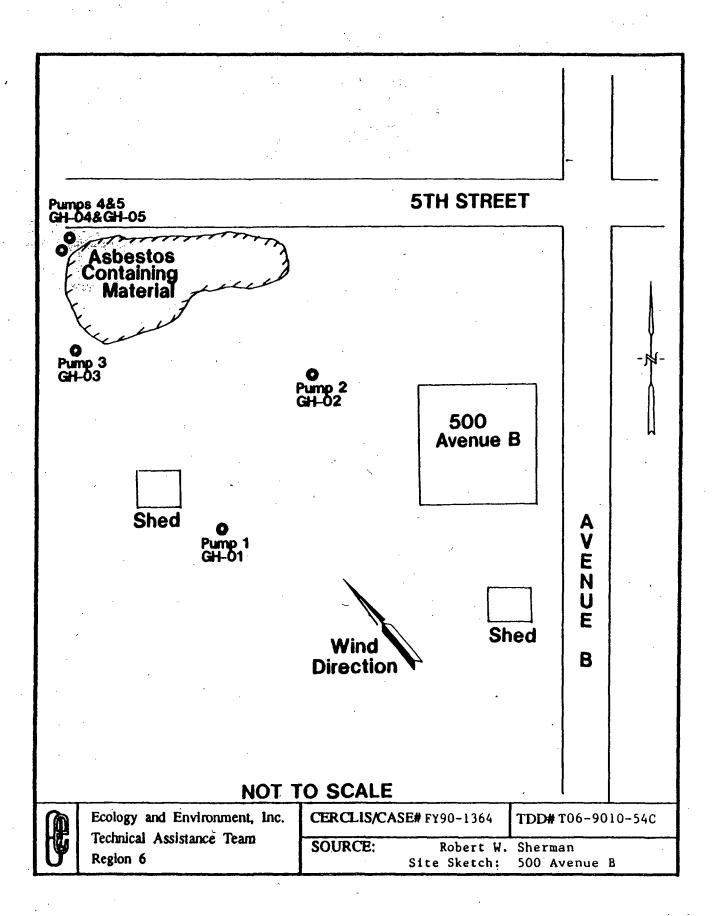
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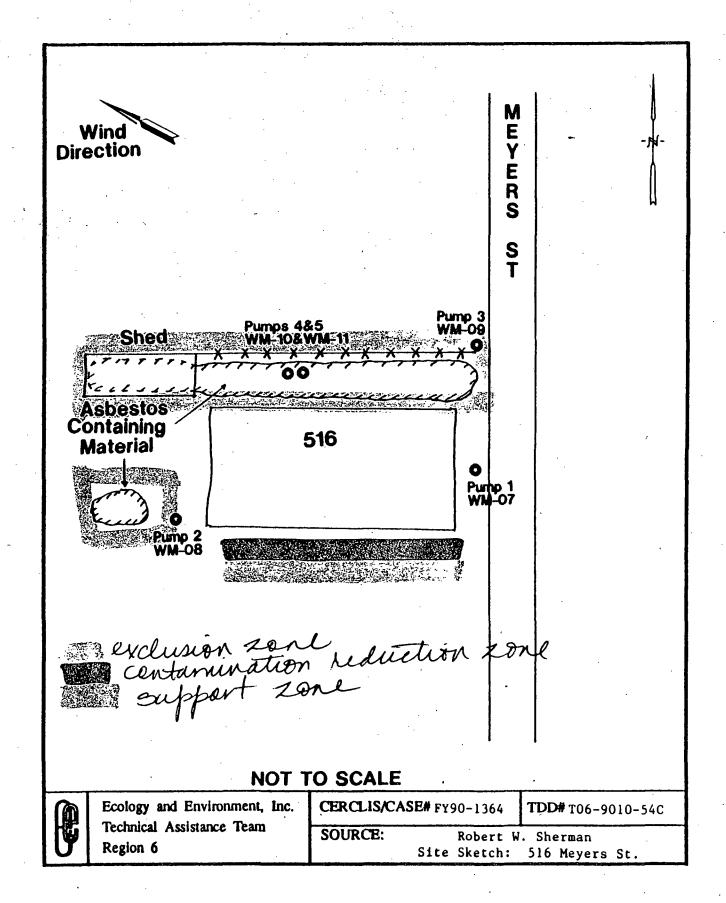
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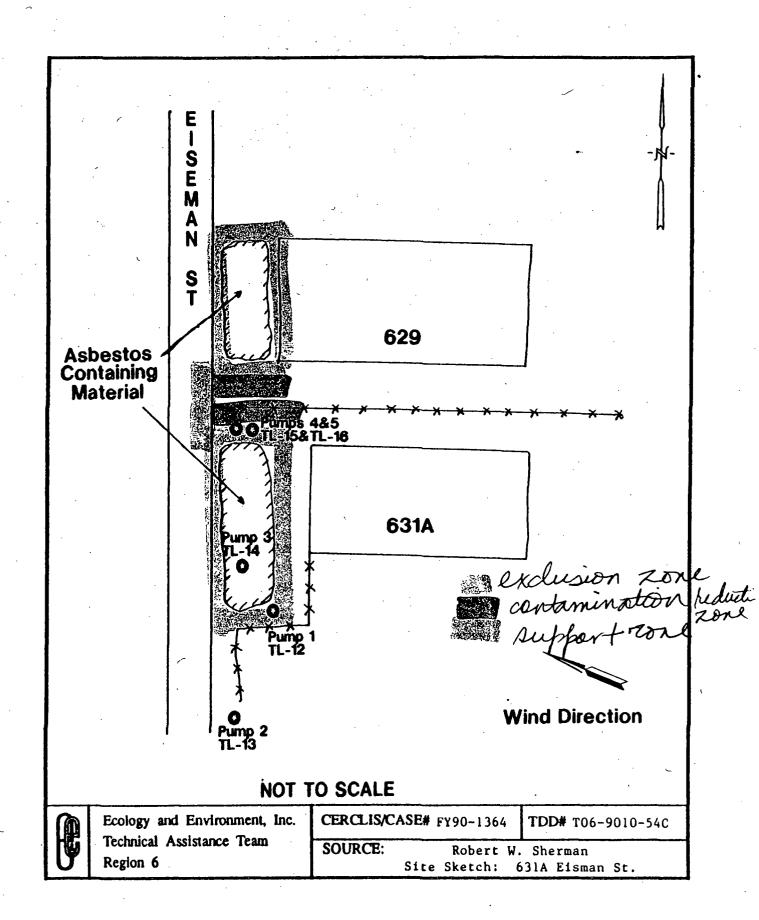
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ATTACHMENT B SITE SKETCHES FROM THE 1990 TAT SITE ASSESSMENT







ATTACHMENT C VEHICLE ACCIDENT FORMS

PROCEDURES TO POLLOW WHEN INVOLVED IN A VEHICLE ACCIDENT ON COMPANY TIME

- Determine if there are any injuries. If so, call for police and medical assistance immediately.
- 2. Then call the office as soon as possible and ask to speak to the following, in order of priority: 1) Regional Safety Officer, 2) Realth & Safety Coordinator, 3) TAT Leader, 4) Assistant TAT Leader. If there are injuries to any B & B personnel, or if there are serious injuries to the other party, try to reach any of these people at home. Try to have as much information as possible about any injuries sustained.
- 3. The E & E Response Center should be contacted at the 24-hour number (716)(684-8940) (notifying Hans Neumaier) regardless of whether or not the persons listed above have been contacted.
 - 4. If there are no injuries, call the police and then call the office as soon as possible.

You will be asked to provide the following information when you call into the office. Obtain as much information as possible before calling.

- 1. Name(s) of the owner(s) of the other vehicle(s) involved and any occupants.
- Injuries to occupants of other vehicles(s),
 minor, () severe, () fatal.
- 3. Insurance carrier(s) of the other party(ies).
- 4. License plate and vehicle registration number of the other vehicle(s) involved. In addition, note the make, model, and year of the car(s).
- 5. Name(s) of our driver and any occupants.
- 6. Injuries to our company driver & any occupants in company vehicle...if so, () minor, () severe, () fatal.
- 7. License plate and serial number of our vehicle as well as the make, model and year. If our vehicle is a rental car, also state the rental agency location, obtain a copy of the rental company accident report, and forward a copy of the rental agreement and the rental company accident report to E & E.
- 8. Location and time of the accident.

ATTACHMENT I **EQUIPMENT/SUPPLIES CHECKLIST** MISCELLANEOUS (Cont.) SAMPLING EQUIPMENT. 8-oz. bottles Gatorade or equivalent Half-gallon bottles Tables VOA boilles Chain Weather radio Hand bailers and seek and the Two-way radios Thieving rods with bulbs 2 ze i ... Binoculars Spoons Megaphone Knives Cooling vest Filter paper Boule labels · 选额费用实现价值 1238 234 SHIPPING EQUIPMENT **MISCELLANEOUS** Paint cans with lids, 7 clips each Pump Vermiculite Surveyor's tape Shipping labels 100' Fiberglass tape DOT labels: 300' Nylon rope .fb. Nylon string State Private "Danger" Surveying flags "Inside Container Complies ..." Camera Hazard Group Film Strapping tape Bung wrench Baggies Soil auger Custody scals Pick Chain-of-custody forms Shovel Federal Express forms Catalytic heater Clear packing tape Propane gas Permanent markers Banner tape Surveying meter stick Chaining pins and ring Logbooks (large, small) Required MSDSs Intrinsically safe flashlight Potable water

MONTH PROJECT

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When an accident does occur, it is very important to notify HQ and Regional Office as soon as possible! We have designed a form that covers all the required information for the company and our insurance carrier (see attached). The importance of timely notification of detailed information to HQ cannot be stressed enough.

Call/fax the form to HQ as soon as possible with accident information. Include how and when we can reach you with further instructions or questions.

Here are some pertinent steps that should be followed:

INJURIES

-Notify & & E Personnel Dept. or Emergency Response Center

RENTAL CAR

- -Call police if accident involves another vehicle or injuries
- Exchange Scense and registration information
- -Call car rental agency and inform them of the accident. Give them HQ address, phone number and Admin. Services Dept. (718/884-8060, EXT. 2802) for future contact
- If car is not drivable, inform rental agency to provide towing
- -Complete rental agency's accident report form and send copy to HQ along with copy of rental agreement (both sides)

CORPORATE VEHICLE

- -Call police if accident involves another vehicle or injuries
- -Exchange Ecense and registration information
- -Notify Headquarters or Region to receive instructions
- -Complete E & E's "Notice Of Loss" report and send to HQ/Region
- If appropriate, send at least three estimates and P.R., etc. to HQ/Region

GOVERNMENT EQUIPMENT

The local police need to be summoned regardless of the extent of damage.

All capital equipment items that are missing, stolen, or damaged need to be reported to the ZPMO so the appropriate documentation (see attached Report of Theft/Loss, etc.) and reporting to EPA can be conducted. Timely reporting will also facilitate replacement or repair to the item.

Attached to this form should be any police reports, photographs, estimates for replacement or repair and logbook entries related to the condition of the equipment. If appropriate, include PRs and 7-point justification documents for <u>quick replacement</u>. Equipment that is missing, stolen or damaged should be reported to the ZPMO within 5 working days of the incident.

PERSONAL VEHICLE

Personal vehicles used for work are not insured by the company. Though the company pays for mileage, coverage for damage to your car, personal injury or other involved property is your own responsibility. Moving violations and traffic tickets received while on the job are entirely the responsibility of the employee.

- **Remember if you are involved in an accident give only the facts, do not admit fault.
- * 1884 Ecology and Environment, Inc.

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PAZ (716) 684-0846

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*PLEASE ATTACH THE POLLOWING INFO: Police Report, Photographs, Copy of Restal Agreement (buildes), Restal Accident Report. IF APPLICABLE, send Estimates, Repair Bills, PR, etc. as : as possible. 8/94 • 1994 Boology and Environment, Inc.

BPA Program:

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TAT - Zone II

REPORT OF TERFT/LOSS/DANAGE OF GOVERNMENT-OWNED PROPERTY

Instructions: This report is to be completed to the fullest extent possible, as soon as possible. In the event of positive discovery of theft or loss, the appropriate Regional and Zone Program Management Office program and equipment managers must be notified, immediately. The ZPMO representative will then notify the EPA-BQ Program Contract Officer and Property Administrator.

PA.	region:				
1.	Event currentl	ly being rep	oorted (circle one):		
ene en	- polic	e report an	by telephone, immediately, and follow up with describing related details, by of corrective action—taken to prevent future		
	detai	ils and atte	of the opposed statement describing related empts made to locate lost item(s). This type of made after exhausting hope of locating item(s).		
٠	(c) DAMAGE vith	In the ever	nt of demage beyond economical repair, provide ZPHO lescribing how item(s) became damaged.		
2.	Inventory information for item(s) nov being reported:				
•	(a) Item Desc	ription: () () (3)		
	(b) Serial Ru	mber: (
	(c) EPA Decal	Rumber: (1)		
3.	Details (as a		•		
	(a) Status/lo	cation of i	tem(s) at time of events		
	(b) Date/time	of events			
	(c) Person in	charge of	item(s), if signed out:		
	(d) Other ind	ividuals on	job (for signed-out item(s):		
		,	•		

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BEFORE OF THEFF/LOSS/DAKAGE OF GOVERNMENT-OWNED PROPERTY, page 2 (f) Date/time/location of last sighting of item(s): (b) Person last sighting item(s): (i) Other details: (j) Actions taken to locate item(s): (k) Authorities notified/reports filed: (l) Heasures taken to prevent repeat of event: (m) Estimated cost of repair, for damaged items: 4. Rame of individual filing report: Signature/Date: 5. Rame of regional equipment coordinator: Signature/Date: Attachments: police report log book entry estimate for replacement/repair other (specify) ZPMO use: 1. Report filed with EFA-BQ: (a) Date: (b) To attention of: (c) Filed by/signature: (attach copy of report) 2. Other follow up action takens:	· (e)	Individual who disco	vered event:
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ATTACHMENT D

COLD STRESS PREVENTION AND TREATMENT

COLD STRESS PREVENTION AND TREATMENT

Cold temperatures are potentially hazardous, especially when work is conducted without appropriate precautions. The following sections describe cold stress prevention and the recognition and treatment of cold stress emergencies.

Preventing Emergencies Due to Cold Stress

When working in situations where the ambient temperature is low, especially if low temperatures are accompanied by windy conditions, personnel should use the following cold-stress prevention measures:

- Wear warm, dry, loose-fitting clothing that is preferably worn in layers.

 Outer clothing should be waterproof and windproof. Inner clothing should be capable of retaining warmth even when it is wet (e.g., wool or polypropylene) or have wicking capabilities (to draw moisture and perspiration away from the skin).
- Wear lined and insulated footwear and warm gloves or mittens.
- Alternately remove and don clothing layers as necessary to regulate body temperature and reduce excess perspiration.
- Drink warm fluids as often as desired.
- Take frequent breaks to provide for cold stress monitoring.

Cold Stress Emergencies

Hypothermia. Exposure to cold can cause the body's internal temperature to drop to a dangerously low level. Hypothermia occurs when a person's body loses heat faster than it can be produced. The body's normal deep-body temperature is approximately 98.6 degrees Fahrenheit. If body temperature drops to 95 degrees Fahrenheit, uncontrollable shivering may occur. If cooling continues, these other symptoms may occur:

- Vague, slow, slurred speech;
- Forgetfulness, memory lapses;
- Inability to use hands;
- Frequent stumbling;
- Drowsiness;
- Exhaustion, collapse;
- Unconsciousness; and
- Death.

Hypothermia impairs the judgment of the victim. Hypothermia is possible even in temperatures above freezing and can be prevented by remaining warm and dry and avoiding overexposure to the colder of the second of

If a person shows symptoms of hypothermia, perform the following:

1966年 17日本社 (高編)をおり続く

- Remove the victim from exposure to wet and cold weather.
- Remove wet clothing and a second

sussificant bos not report the late of the contract

- If the victim is only mildly affected, provide warm drinks and dry clothing.
- If the victim is more seriously affected (clumsy, confused, unable to shiver), begin safe-warming procedures such as hugging, wrapping in dry blankets, and the use of warm objects such as hot water bottles or heat packs, and arrange for evacuation. Do not give the victim warm drinks until he or she exhibits a clear level of consciousness and appears to be warming up.

Frostbite. Frostbite occurs when body tissue freezes. Severe frostbite can lead to reduced circulation and the possible need for amputation. To prevent frostbite, maintain good circulation and keep extremities warm and dry. In extreme cold, it is important to prevent heat loss from as many areas of the body as possible. Exposed limbs and the head are major areas of heat loss.

Tall, thin people; those in poor physical condition; people with chronic diseases; heavy smokers; children; the elderly; and those who have been drinking alcohol are more susceptible to frostbite than other people due to poor circulation, poor production of body heat, or both.

There may be no pain or numbness experienced with gradual freezing of body tissues. While in the cold, it is important to test extremities for sensation and ensure that clothing is loose-fitting and warm. Exposed parts of the body should be inspected routinely. Just before freezing, skin becomes bright red. As freezing continues, small white patches will appear and the skin will become less elastic, often remaining pitted after it is touched or squeezed.

Serious freezing is most common in the feet because people are less aware of them, circulation and sensation are poorer, and warm footwear is difficult to obtain. Hands are usually the next to freeze. Exposed parts of the head will freeze less rapidly because they are conditioned to exposure and have a better blood supply.

In very cold weather, avoid touching cold metal with bare body parts. In the event that this happens, release the skin gently using heat, warm water, or urine. Avoid handling gasoline, kerosene, or similar liquids which, when handled in cold weather, can cause immediate frostbite.

If a person shows symptoms of frostbite, consult a medical professional, if possible, and perform the following:

• Initiate rewarming only if subsequent refreezing is not a possibility (thawing and refreezing should always be avoided because this is very injurious to tissue). Rewarm body parts in water that is approximately 100 to 105

degrees Fahrenheit. Do not try to thaw the body parts using cold water, snow, or intense heat from fires or stoves. The whole body may be immersed in warm water if necessary.

- If a large portion of an extremity is frozen when rewarming is initiated, the deep body temperature may drop as cooled blood begins to circulate throughout the body. Provide warm liquids to alleviate this situation.
- Move the afflicted part gently and voluntarily during rewarming.
- Use pain medication if it is available. Rewarming can be acutely painful. After thawing is completed, a deep pain may persist for several days, depending on the severity of the frostbite. Pain may be a good sign as it indicates that nerve function is present.
- A dull purple color, swelling, or blisters indicate serious injury and the need for medical attention. Consult a medical professional.

ATTACHMENT E

ATTACHMENT E

FIRST AID INFORMATION

ontrary to some beliefs,

tan is not in. Although
brief exposure to the sun
use your skin to produce the
am I D necessary for the healthy
mation of bones, long exposure can
use problems, such as sunburn, skin

and early aging—a classic case of too much

there are two kinds of ultraviolet (UV) light rays to be forcemed about. Ultraviolet beta rays (UVB) are the built producing rays that more commonly cause skin carcer. These are the rays that damage the skin's surface and cause you to blister and peel. The other rays, ultraviolet alpha rays (UVA), have been heralded by taying salons as "safe rays." Tanning salons claim to use lights that only emit UVA rays. Although UVA rays nay not appear as harmful as UVB rays to the skin's surface, they more readily penetrate the deeper layers of the skin. This increases the risk of skin cancer, skin aling, eye damage, and changes that may alter the skin's ability to fight disease.

How do you get enough sun without getting too much? First avoid exposure to the sun between 10:00

a.m. and 2:00 p.m. UV rays are most harmful during this period. Second, wear proper clothing. Third, if you are going to be exposed to the sun, protect your skin and eyes.

Commercial sunscreens come in various strengths. The American Academy of Dermatology recommends year-round sun protection
including use of a high Sun
Protection Factor (SPF)
sunscreen for everyone, but
particularly for people who are fairskinned and sunburn easily. The Food
and Drug Administration (FDA) has

evaluated SPF readings and recognizes values between 2 and 15. It has not been determined whether sunscreens with ratings over 15 offer additional protection.

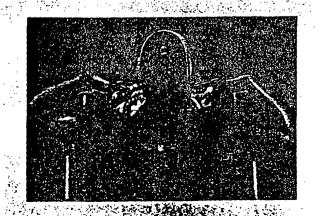
You should apply sunscreen 15 to 30 minutes before exposure to the sun and reapply it often (every 60 to 90 minutes.) Swimmers should use sunscreens labeled as water-resistant and reapply them as described on the label.

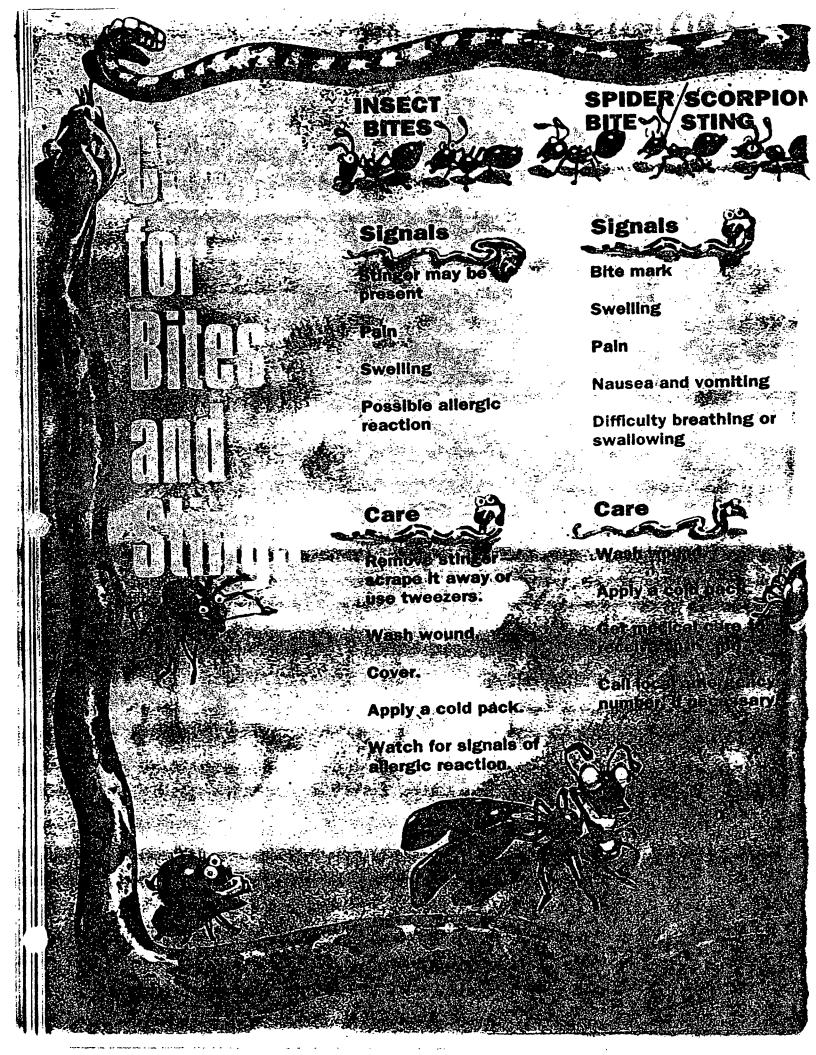
Your best bet is to use a sunscreen that claims to protect against both UVB and UVA rays. Carefully check the label to determine the protection a product offers. Some products only offer protection against UVB rays.

It is equally important to protect your eyes from sun damage. Sunglasses are a sunscreen for your eyes and provide important protection from UV rays. Be sure to wear sunglasses that are labeled with their UV-absorb-

ing ability. Ophthalmologists recommend sunglasses that have a UV absorption of at least 90 percent.

The next time the sun beckons, put on some sunscreen and your sunglasses, go outside, and have a great time.







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Bite mark

xelling

Bleeding

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Wash wound:

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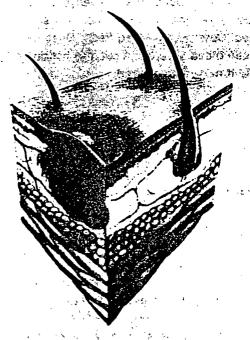
Apply antiblo ointment



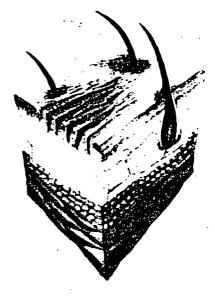


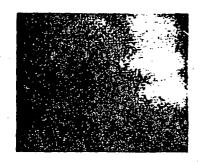
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BRUISE

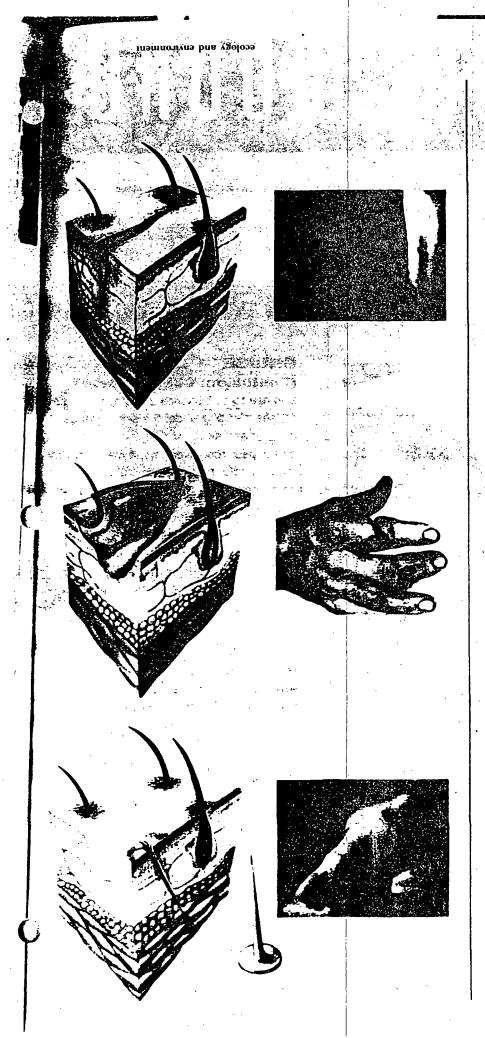
(Contusion; Charley Horse)

Damage to soft tissues and blood vessels causes bleeding under the skin. Tissues discolor and swell. At first, the area may only appear red. Over time, it may turn dark red or purple. A large or painful bruise may be a signal of severe damage to deep tissues.

SCRAPE

(Abrasion; Road rash; Rug burn; Strawberry)

Most common type of wound. Caused by skin that has been rubbed or scraped away. Usually painful because scraping away of outer layer of skin exposes nerve endings. Dirt and other matter can easily become ground into the wound, making it especially important to clean it. Can easily become infected if not kept clean.



CUT

(Incision; Laceration)

A cut may have either jagged or smooth edges. Cuts are commonly caused by sharp-edged objects, such as knives, scissors, or broken glass. They can also result when a blow from a blunt object splits the skin. Deep cuts can damage nerves, large blood vessels, and other soft tissues. Cuts usually bleed freely. Deep cuts can bleed severely. A cut may not be painful if nerves are injured.

AVULSION

A cut in which a portion of skin or other soft tissue is partially or completely torn away. A partially avulsed piece of skin may remain but hangs like a flap. A violent force may completely tear away a body part, such as a finger. Because an avulsion often damages deeper tissues, bleeding is often significant. In contrast, when a body part is completely torn away, bleeding is easier to control because the tissues close around the vessels at the injury site.

PUNCTURE

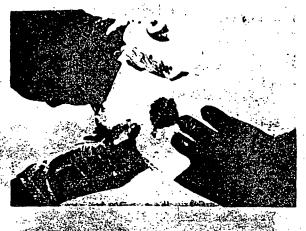
A wound caused when a pointed object, such as a nail, piece of glass, or knife, pierces the skin. A gunshot wound is also a puncture wound. Because puncture wounds do not usually bleed a lot, they can easily become infected. Bleeding can be severe if the penetrating object damages major blood vessels or internal organs. An object that remains embedded in the wound is called an impaled object. An object that passes completely through a body part will make two wounds—one at the entry point and one at the exit point.

BANDAGE

A roller bandage used to control bleeding is called a pressure bandage. To apply a pressure bandage ...

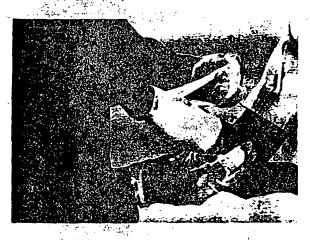
Start by securing the bandage over the dressing.

A MUTCH STA





Use overlapping turns to cover the dressing completely.



Tie or tape the bandage in place.

never of the heart, it possible to help slow bleeding. Secure one end of the bandage in place. Then wrap the bandage around the body part, using overlapping turns, covering the dressing, and extending several inches beyond the dressing at both ends. Tie or tape the bandage in place. If possible, do not cover the fingers or toes. Check them to see if they turn pale or blue or become cold. If they do, the bandage is too tight. Loosen it.

When a roller bandage is used

When a roller bandage is used to help control bleeding, it is commonly called a pressure bandage. This is because it can be applied snugly, keeping pressure over the wound. If blood soaks through bandages, put on more dressings and bandages. Do *not* remove blood-soaked ones.

Roller bandages can also be elastic. These are sometimes called Ace bandages. They are used to keep pressure on a part of the body such as an arm or leg. They can control swelling and give support and are commonly used on joint injuries. Like other roller bandages, these elastic bandages are also available in assorted sizes.

Although an elastic bandage is very effective, it can create problems if it is applied so tightly that it restricts blood flow. Restricted blood flow is not only painful, it can cause tissue damage.



Check the fingers for warmth, color, and feeling.

140 Standard First Aid

The first step in using an elastic bandage is to select the correct de. This is determined by the area that you plan to wrap. A narrow bandage would be used to wrap a hand or wrist. A medium width bandage would be used for an arm or ankle. A wide bandage would be used to wrap a leg To begin the wrap, place the

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end of the bandage against the skin and use overlapping turns. Gently, stretch the bandage as you continue the wrapping. The wrap should cover a long body section like and am or a calf, beginning at the point furthest from the heart. For a joint like a knee or ankle, use figureexht turns to support the joint.

Be sure that the bandage is not too tight. Check the circulation of the limb beyond the bandage by noting changes in skin color and temperature. CIAIUIC.

CARING FOR **INJURIES**

Similaring Str.

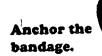
Most closed wounds, such as bruises, do not need special medical care. You can use direct pressure on the area to cut down bleeding under the skin. Raising the injured part helps reduce swelling.



ELASTIC BANDAGE Elastic bandages control swelling and give support for injuries, such as sprains or strains. To apply an elastic bandage ...

Start at the point farthest from the heart.







Wrap the bandage using overlapping turns.





Tape the bandage in place.







messure if a sterile dressing isn't allable, use any clean cloth, such 2 lowel, handkerchief, tie; or ock if the victim is able to help, him or her apply pressure to he wound. Use your own bare hand to apply pressure only as a by resort Always try to put a barner between vourself and a victim's blood Keep a pair of disposable gloves handy, either in a first aid kit or in your car

TOOL

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Next, elevate the wound. If possible, raise the injured area above the level of the heart. Then, apply a bandage snugly over the dressings to keep pressure on the wound. If the bleeding is still not controlled, use a pressure point. A pressure point is a spot on the body where you can squeeze the nearby artery against the bone underneath. This can slow or stop the flow of blood to the wound.

Caring for a Major Open Wound

Control bleeding by placing a clean covering, such as a sterile dressing, over the wound and applying pressure.

If you don't think the wound also involves a broken bone, elevate the injured area.

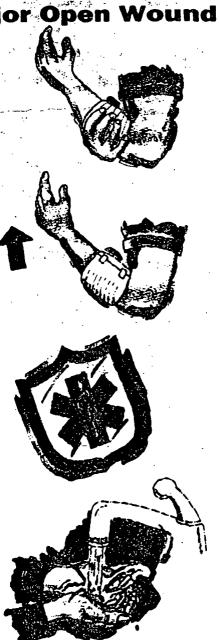
Apply a bandage snugly over the dressing.

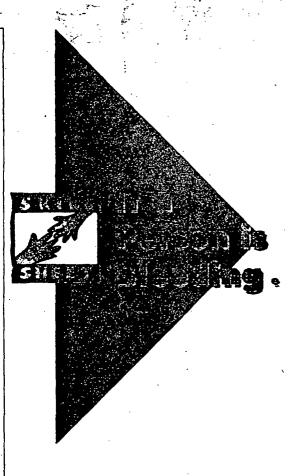
If the bleeding cannot be controlled, put pressure on the nearby artery (pressure point).

Seek medical attention. (Call EMS personnel or transport the victim to a medical facility.)

Wash your hands immediately after completing care.

recycled paper



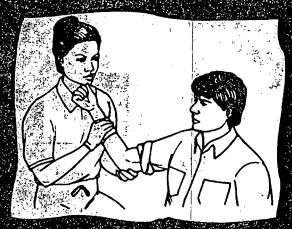


ecology and environment

Control Bleeding



Cover wound with dressing and press firmly against the wound with hand.



Elevate arm above the level of the hear



Cover dressings with a-roller bandage.

Sprains and Strains

Spring is the season of flowers, trees, strains, and sprains. Almost as soon as armchair athletes come out of hibernation to become intramural heroes, emergency clinics see an increase in sprained ankies, twisted knees, and strained backs. So what do you do when you attempt the first slide of the softball season and wind up injured? Should you apply heat or apply cold?

The answer is both First cold, then heat. It does not matter whether it is a strain or a sprain!

When a person twists an ankle or strains his or her back, the tissues underneath the skin are injured. Blood and fluids seep from the tom blood vessels and cause swelling to occur at the site of the injury. By keeping the injured area cool, you can help control internal bleeding and reduce pain. Cold causes the broken blood vessels to constrict. Ilmiting the blood and fluid that seep out. Cold also reduces muscle spasms and numbs the nerve endings. Ice should be applied to the injury periodically for about 72 hours or until the swelling goes away.

Next, apply heat. Heat speeds up chemical reactions needed to repair the tissue. White blood cells move in to rid the body of infections, and other cells begin the repair process. This enhances proper healing of the injury. If you are unsure whether to use cold or heat on an injured area, always apply cold until you can consult your physician.



STRAIN

SPRAIN



n

*

P

An injury causes damage to blood vessels, causing bleeding in the injured area Injury irritates nerve endings, causing pain.



Applying ice or a cold pack constricts blood vessels, slowing bleeding that causes the intury to swell. Cold deadens nerve endings relieving pain.

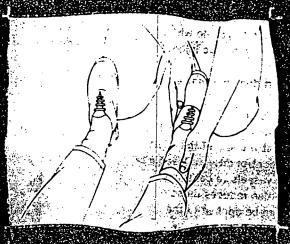


Applying heat dilates blood vessels, increasing blood flow to the injured area. Nerve endings become more sensitive.



recycled paper recycled paper

Apply a Soft Splint



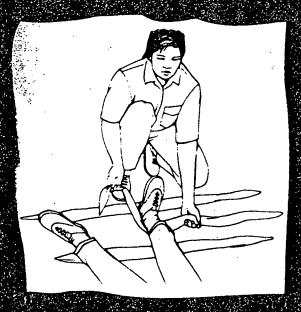


Support the injured area above and below the site of the injury.





Check for feeling, warmth, and color



Place several folded triangular bandages above and below the injured area



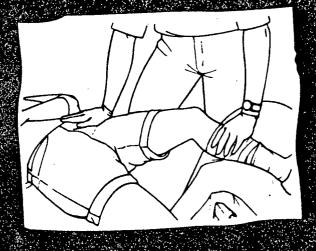


If bleeding doesn't stop...

Apply additional dressings.

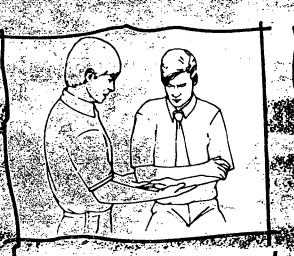


siir Squeeze artery igainst bone



If bleeding is from the leg, press with the heel of your hand where the leg bends at the hip.

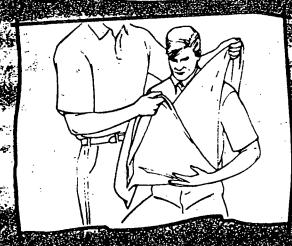
Apply a Sling



Support the injured area above and below the site of the injury



Check for feeling, warmth, and color



Place mangula under injured ann and over uninjured shouldi





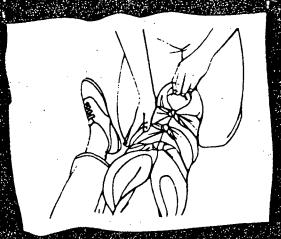


Gently wrap a soft object (a folded blanket or a pillow) around the injured area.





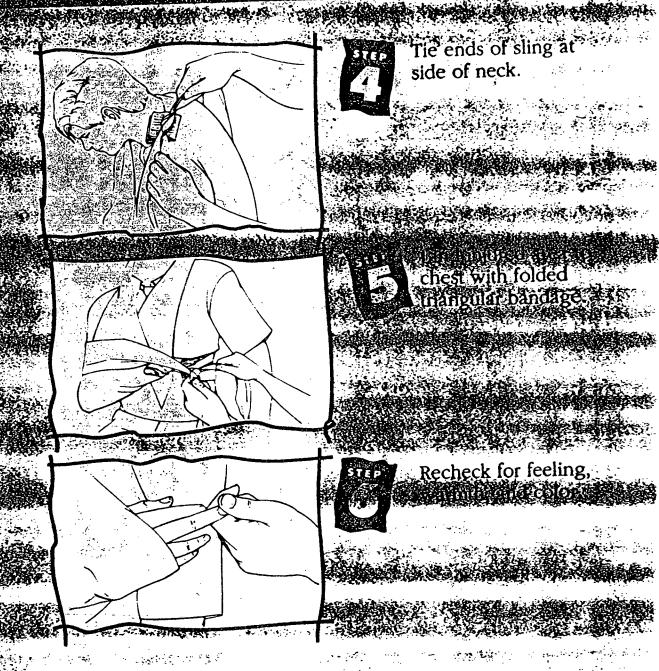
Tie triangular bandages securely.





Recheck for feeling, warmth, and color.

If you are not able to check warmth and color because a sock or shoe is in place, check for feeling.

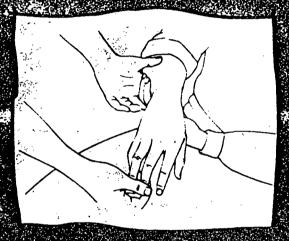


Apply a Rigid Splint



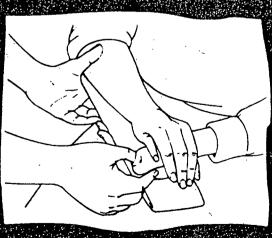


Support the injured area **mabove and** below the site of the injury.





Check for feeling, warmth, and color.

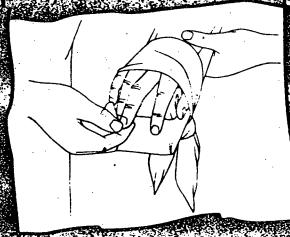




Place the rigid splint (board) under the injured area and the joints that are above and below the injured area.









The several folded mangular bandages above and below the injured area.



Recheck for feeling warmth, and color.

If a rigid splint is used on a forearm you must also immobilize the elbow. Bind the arm to the chest using folded triangular bandages or apply a sling

Poison Control Centers

Poison Control Centers (PCCs) help people deal with poisons. There are PCCs all over the United States. Many centers are in the emergency departments of large hospitals. The people who staff these centers have access to information about almost all poisonous substances.

They will tell you how to counteract the poison.

Keep your
local PCC
telephone
number
posted by
your
telephone.
The number
will be in your
lirectory. You

telephone directory. You can also get it from your doctor, a local hospital, or your local EMS system.

Poison Control Centers

Poison Control Centers answer over a million calls about poisoning each year. Many poisonings can be cared for without the help of EMS personnel, so PCCs help reduce the workload of the EMS system. If the victim is conscious, call your local or regional PCC first. The center staff will tell you what care to give and whether to call for an ambulance.

If the victim is unconscious, or if you do not know your PCC number, call your local emergency number. The dispatcher may be able to link you with the PCC. The dispatcher may also listen in to your talk with the PCC and send an ambulance if needed.

When someone has swallowed a poison, the PCC may tell you to make the victim vomit by giving syrup of ipecac. You can buy syrup of ipecac at your local drug store. It usually comes in a 30-milliliter bottle (about 2 tablespoons). Two tablespoons, followed by two glasses of water, is the normal

dose for a person over 12 years of age. For children aged 1 to 12, the normal dose is 1 tablespoon followed by two glasses of water. The victim usually vomits within 20 minutes. Young children often will not take syrup of ipecac, so it may have to be given in the hospital.

There are some instances when you should not induce vomiting. This is why you should call the Poison Control Center (PCC) for advice. Do not make the victim vomit if he

or she has swallowed a corrosive substance (an acid or alkali) or a petroleum product such as kerosene or gasoline. Corrosive substances burn tissues, and if vomited, can burn the esophagus, throat, and mouth.

Since vomiting removes only about half of the poison, the PCC may advise you to counteract the remaining poison with activated charcoal. You can buy it in both liquid and powder forms from drug stores. Before use, the powder should be mixed in water to form a

solution with the consistency of a milk shake. For a person over 12 years of age, follow the directions on the bottle. Young children usually will not take activated charcoal, so it is given to them in the hospital.

Syrup of ipecac is used to induce vomiting in victims who have swallowed certain kinds of poisons. Activated charcoal is used to absorb swallowed poisons.

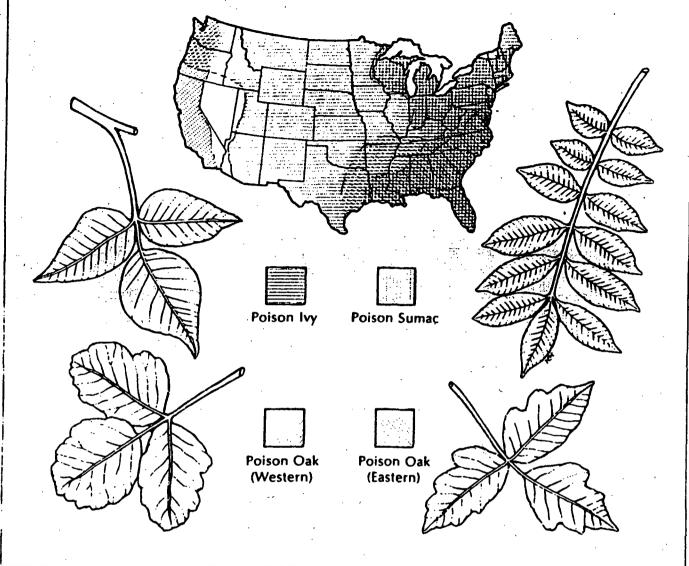


Figure 7.5. Distribution of poison ivy, sumac, and oak in the United States.

figure 7.5.) If exposure does occur, follow these steps:

- Remove contaminated clothing (including shoes) and wash all exposed areas thoroughly with a strong soap.
 Apply alcohol and then rinse with water.
- If a rash appears, apply calamine or other soothing lotion. Corticosteroid creams or lotions also will ease itching and swelling, but should be used according to instruction, should only be applied to limited areas
- and should not be used on young children.
- Weeping or oozing blisters should be covered with sterile gauze moistened with a mild solution of 1 tablespoon of baking soda in 1 quart of water.
- If fever or severe symptoms such as widespread rash or involvement of mouth, eyes, or genitals occur, see a doctor.

"The Columbia University College of Physicians and Surgeons Complete Home Medical Guide" Consumer Union edition, Mt. Vernon New York, Copyright 1985

ATTACHMENT F

DAILY SAFETY MEETING RECORDS

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Physical Hazards Upda	te: cold stress. s	lip/trip/fall.	animal and insec	t bites, alw	ave be aware o	f suuroundings	·
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Radiation Hazards Upd	late: none detected	during previo	us site assessmen	nt			
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Protective Clothing/E	r asbestos, TAT wil	ions: work wil	1 be conducted in	n level D; ho	wever, if TAT :		
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INITIAL PROJECT SAFETY CEECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOO on Site? NA and available for team member review? NA

ATTENDEES

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Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
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GENERAL INFORMATION Project: WESTBANK ASBESTOS 17 AL Project No.: 274081 K 16100 TDD/PAN No.: TOC-0511-010/ELA037938A S06-9601-033/0035015Fxx Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish Date: 2/8/96 Time: 0756 Weather: Clear, cool, humid slight browze Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written and video/photo-graphic documentation
Project: WESTBANK ASBESTOS 18 90. Project No.: 274001 K J 6100 TDD/PAN No.: 706-9611-010/EDA037938A S06-9601-033/00350156xx Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish Date: 2/8/96 Time: 0756 Weather: Clear, cool, humid slight breeze Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written
Project No.: 274001 KJ6100 TDD/PAN No.: 706-05:1-010/ELA037938A SU6-9601-033/0035015Fxx Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish Date: 2/8/96 Time: 0756 Weather: Clear, cool, humid slight brouze Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written
Project No.: 274001 KJ6100 TDD/PAN No.: 706-05:1-010/ELA037938A SU6-9601-033/0035015Fxx Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish Date: 2/8/96 Time: 0756 Weather: Clear, cool, humid slight brouze Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish Date: 2/8/96 Time: 0756 Weather: Clear, cool, humid, slight breeze Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written
Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written
Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written
SAFETY TOPICS PRESENTED
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite
Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of suuroundings
Radiation Hazards Update: none detected during previous site assessment
Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 199 and results revealed no detection of fibers in the ambient air at these locations
Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties and latex gloves
Company to the second man will used a material man will used a material man will used a material man and the second man will use a material man and the second man will use a material man and the second m
Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before collecting the bulk sample
Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): NA
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Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle
Hospital/Clinic: West Jefferson Medical Center 504-347-5511
Hospital Address: 1101 Avenue D Marrero, Louisiana
Directions to Hospital: Sites are located throughout the west bank area; therefore, best route from any location is to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located south of the West Bank Expressway
Additional Topics/Observations: The area in which the sites are located has a high crime rate; therefore, all team
members should be aware of their surroundings and if any suspicious activity is detected immediately remove yourself from the area
Team Members' Comments/Suggestions:

INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDRES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
Gregory R.Day	Gregory Roay	2/8/96	EPA START /EXE
Troy M. NAQUEN	Zu Maguri	2/3/96	EPASTANT/FOE
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Meeting Conducted By:	(Narfe)	1	(Signature)
Joseph Safe	ety Coordinator)	^A	(Team Leader)

DAILY	SAFETY MEETING REC	ORD
	GENERAL INFORMATION	
Project: WESTBANK ASBUSTOS	7128 24 96	
	TDD/PAN No.: T06-9511-010/BLA037538	506-9601-033/0035015FX
Project Location: West Bank area of New Or	leans-Marrero, Harvey, Westwego, & C	
Date: 2 9 96 Time: ()749 Weath	ex: Fagu humid cod 1	tomo ~50°F
Specific Location: Residential driveways a		ank area
Planned Activities: 1) conduct an extent o		waste volume estimates, 3) conduct written
and video/photo-graphic document	ation .	
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	SAFETY TOPICS PRESENTED	
Chemical Hazards Update: Asbestos-species	. <u> </u>	A STATE OF THE STA
Chemical nazarus opuace. Assestos-species	include daybotic and croclatice	and the second of the second o
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Physical Hazards Update: cold stress, slip	/trip/fall, animal and insect bites	, always be aware of suuroundings
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Padinton Hannah Maken, more deposed de	vina pravious site assessment	
Radiation Hazards Update: none detected du	iring previous site assessment	and the second s
·	: · · · · · · · · · · · · · · · · · · ·	a manager and a second
	on of fibers in the ambient air at th	hese locations.
Protective Clothing/Equipment Modification sampling for asbestos, TAT will and latex gloves		D, however, if TAT is tasked to perform rtridges, tyvek with hoods, latex booties,
Special Equipment/Procedures: if sampling	is required. TAT will used a wetting	agent before collecting the bulk sample
Drilling Safety Issues (including testing		
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Emergency Procedures: Exit the location whe	we work to being conducted to the	
Emergency Procedures: Exit the rocation whe		
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Hospital/Clinic: West Jefferson Medical Cen	PAT 504-347-5511	
Hospital Address: 1101 Avenue D_Marrero, Lo	nigiana	.Telephone:
Directions to Hospital: Sites are located		
		he hospital is located south of the West
Additional Topics/Observations: The area in members should be aware of their remove yourself from the area		high crime rate, therefore, all team activity is detected, immediately
Team Members' Comments/Suggestions:		4.1.1. A. 1.4. 1995 (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995)
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
Gregory RDay	Tregory Rlay	2/9/96	EPA START /EYE
MAJUEN NASUEN	Znon Nogni	2/9/96	SPA START / BOE
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Montage Conducted By (100)	Ory (Name)	2	Work Charles
Meeting Conducted By: (200	(Name)		(Signature)
Grego	ry Roay	八八	- Moan
(Site Sef	ety(Coordinator)		(Team Leader)

ecology and environment, inc. DAILY SAFETY MEETING RECORD GENERAL INFORMATION Project: WESTBANK ASBESTOS TDD/PAN No.: T06-9511-010/FLA0375SBA- SO6-9601-031/0035015FXX Project No.: 274061 KT 6/00 Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish Date: 2/12/96 Time: 0845 Neather: windy, cool - 530F, low humbling Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written and video/photo-graphic documentation SAFETY TOPICS PRESENTED Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of suuroundings Radiation Hazards Update: none detected during previous site assessment Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 1990 and results revealed no detection of fibers in the ambient air at these locations Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties and latex gloves Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before collecting the bulk sample Drilling Safety Issues (including testing the operation of drill rig emergency stop switches) --- NA --------------Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle Hospital/Clinic: West Jefferson Medical Center 504-347-5511 Hospital Address: 1101 Avenue D Marrero, Louisiana Directions to Hospital: Sites are located throughout the west-bank area; therefore best-route from any location is to proceed to the West Bank Expressway then to Avenue D; in which the hospital is located south of the West Bank Expressway Topics/Observations: The area in which the sites are located has a high crime rate; therefore, all team members should be aware of their surroundings and if any suspicious activity is detected, immediately Additional Topics/Observations: The area in which the sites are located has a high crime rate; therefore, all team members should be aware of the remove yourself from the area Team Members' Comments/Suggestions:

INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- Site safety plan readily available and its location known to all team members? X
- 4 E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
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Meeting Conducted By:	e de Managaria de la composiçõe de la co	. <u> </u>	
	(Name)	د ه	(Signature)
(Site Safe	ty Coordinator)		(Team Leader)

DAILY SAFETY MEETING RECORD	
GENERAL INFORMATION	
Project: WESTBANK ASBESTOS	
Project No.: ZT4061 KT6/00 TDD/PAN No.: T06-9511-010/BLA03759BA 10	6-9601-038/0035015FXX
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna,	, Jefferson Parish
Date: 2/13/96 Time: 0800 Weather: Guilto coulty, col 25905,	en hulter, wind
Specific Location: Residential driveways and servitudes throughout the west bank are	ea .
Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste value of and video/photo-graphic documentation	volume estimates, 3) conduct written
SAPETY TOPICS PRESENTED	
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite	
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Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, alway	ys be aware of suuroundings
Radiation Hazards Update: none detected during previous site assessment	
	e e e e e e e e e e e e e e e e e e e
Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at and results revealed no detection of fibers in the ambient air at these lo	
Protective Clothing/Equipment Modifications: work will be conducted in level D; howe sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridge and latex gloves	ever, if TAT is tasked to perform es, tyvek with hoods, latex booties,
Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent	
	and an analysis of the contract of the contrac
Drilling Safety Issues (including testing the operation of drill rig emergency stop	switches): NA
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Emergency Procedures: Exit the location where work is being conducted to the nearest	vehicle
Hospital/Clinic: West Jefferson Medical Center. 504-347-5511	
Hospital Address: 1101 Avenue D Marrero, Louisiana	Telephone:
Directions to Hospital: Sites are located throughout the west bank area; therefore, to proceed to the West Bank Expressway then to Avenue D, in which the hosp Bank Expressway	pital is located south of the West
Additional Topics/Observations: The area in which the sites are located has a high commembers should be aware of their surroundings and if any suspicious activities remove yourself from the area	
Team Members' Comments/Suggestions:	
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
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Meeting Conducted By:		şin.	
· · · · · · · · · · · · · · · · · · ·	(Name)		(Signature)
(Site Safe	ety Coordinator)		(Team Leader)

ecology and environment, inc.
DAILY SAFETY MEETING RECORD
GENERAL INFORMATION
Project: WESTBANK ASBESTOR / SEL 2/14/26
Project No.: 1100 KUGO TDD/PAN No.: TOG 9511-010/BLA02260BA SOG-9661-033/0035015FX
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish
Date: 2/4/96 Time: 0756 Weather: Close COO, temp ~ 50°F
Specific Location: Residential driveways and servitudes throughout the west bank area
Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct writte
and video/photo-graphic documentation
SAPETY TOPICS PRESENTED
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite
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Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of suuroundings
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Radiation Hazards Update: none detected during previous site assessment
Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 199
and results revealed no detection of fibers in the ambient air at these locations .
Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform—sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties
and latex gloves
Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before collecting the bulk sample
Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): NA
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle
Hospital/Clinic: West Jefferson Medical Center 504-347-5511
Hospital Address: 1101 Avenue D Marrero, Louisiana
Directions to Hospital: Sites are located throughout the west bank area; therefore, best route from any location is to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located south of the West
Bank Expressway
Additional Topics/Observations: The area in which the sites are located has a high crime rate; therefore, all team members should be aware of their surroundings and if any suspicious activity is detected, immediately
remove yourself from the area
Team Members' Comments/Suggestions:
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTEMDEES

Gragory R Day Gregory R Day 2/14/96 EPA-START Troy Naguin 2 2/14/96 EPA-START		Representing (Company/Agency)		Date	Name (Signature)	ed)	Name (Printed)
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Meeting Conducted By: Gregory R Lay Ligary KNOW		egory Klay	leg		gory Rlay	100	•
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(Sire Safety Coordinator) (Team Leader)	<u></u> 1		£		ety Coordinard)	(Sire Sat	

DAILY SAFETY MEETING RECORD
GENERAL INFORMATION
Project: WESTBANK ASBESTOS JAB JUD 2 5 96
Project No.: 25001 KIGIO TDD/PAN No.: 406-9911-010/ELA03756BA SOL -9-01-033/20156X
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish
Date: 2/15/16 Time: 0758 Weather: Sunny clear temp ~60F
Specific Location: Residential driveways and servitudes throughout the west bank area
Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written and video/photo-graphic documentation
SAPETY TOPICS PRESENTED
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite
e e e e e e e e e e e e e e e e e e e
Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of suuroundings
Radiation Hazards Update: none detected during previous site assessment
Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 1990 and results revealed no detection of fibers in the ambient air at these locations
Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties, and latex gloves
Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before collecting the bulk sample
Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): NA
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle
Hospital/Clinic: West Jefferson Medical Center 504-347-5511
Hospital Address: 1101 Avenue D Marrero, Louisiana
Directions to Hospital: Sites are located throughout the west bank area; therefore, best route from any location is
to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located south of the West Bank Expressway
Additional Topics/Observations: The area in which the sites are located has a high crime rate therefore all team members should be aware of their surroundings and if any suspicious activity is detected immediately remove yourself from the area
Team Members' Comments/Suggestions:

INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? x
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
Gregory & Day	Gegory Klay	2/15/96	EPA-START
Troy Naguir	The flore	2/15/96	EPA-START
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Meeting Conducted By:	(Name)		(Signature)
Migory	ety Coordinator		(Team Leader)
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ecology and environment, inc.	-
DAILY SAFETY MEETING RE	CORD
GENERAL INFORMATION	
Project: MESTRANK ASBESTOS 2116 96	
Project No.: 274061 KJ6 TDD/PAN No.: 706-9511-01U/ELA93766	BA 506-9601-033/0035015FXX
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, &	
Date: 2/16/96 Time:075/ Weather: Cloar, Windy, Coc	temm ~50°F larthe Cloudin
Specific Location: Residential driveways and servitudes throughout the west	
Planned Activities: 1) conduct an extent of contamination survey, 2) perform	waste volume estimates, 3) conduct written
and video/photo-graphic documentation	
SAFETY TOPICS PRESENTED	· · · · · · · · · · · · · · · · · · ·
Chemical Razards Update: Asbestos-species include chrysotile and crocidolite	·
Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bite	s, always be aware of suuroundings
Radiation Hazards Update: none detected during previous site assessment	
Review of Previous Monitoring Results: Air monitoring for asbestos was condu and results revealed no detection of fibers in the ambient air at	cted at three residential locations in 1990
and results revealed no decection of tibers in the ambient are ac-	in the second of
Protective Clothing/Equipment Modifications: work will be conducted in level	D. however if TAT is tasked to perform
sampling for asbestos, TAT will upgrade to level C-APR with HEPA c and latex gloves	artridges, tyvek with hoods, latex booties,
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Special Equipment/Procedures: if sampling is required, TAT will used a wetti	
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Drilling Safety Issues (including testing the operation of drill rig emergen	ar aton mitches). W
	cy stop switches; in
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Bmergency Procedures: Exit the location where work is being conducted to the	nearest vehicle
Hospital/Clinic: West Jefferson Medical Center 504-347-5511	42,400
Hospital Address: 1101 Avenue D Marrero, Louisiana	Telephone:
Directions to Hospital: Sites are located throughout the west bank area; the	refore; best route from any location is
to proceed to the West Bank Expressway then to Avenue D, in which Bank Expressway	the nespital is located south of the west
Additional Topics/Observations: The area in which the sites are located has a members should be aware of their surroundings and if any suspiciou	s activity is detected, immediately
remove yourself from the area	
Team Members' Comments/Suggestions:	Callenda Cal
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? \underline{X} and made familiar to all team members? \underline{X}
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTRNDEES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
Gregory Libry	Gregory Rlay	2/14/96	EPA START
Tray M. Nauin	Zoon or Namum	2/16/1	EPA START
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Meeting Conducted By:	gory Liby (Name)	***	Memory Louis
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(Site Sat	My Coofdinator)		(Team Leader)

DAILY SAFETY MEI	RTING RECORD
1 GENERAL INTO	Total Control of the
101/96	BUATION (96
Project: WESTBANK ASBERTAS 2124	HOD 210
Project No.: 274061 KJ6 KD TDD/PAN No.: 706-951	506-9601-033/0035015EXX
Project Location: West Bank area of New Orleans-Marrero, Harve	
Date: 2/21/96 Time: 9840 Neather: Cool, Foggu	Very humid temp ~55°F
Specific Location: Residential driveways and servitudes through	shout the west bank area
Planned Activities: 1) conduct an extent of contamination surv and video/photo-graphic documentation	rey, 2) perform waste volume estimates, 3) conduct written
· · · · · · · · · · · · · · · · · · ·	
SAFETY TOPICS PE	ESENTED
Chemical Hazards Update: Asbestos-species include chrysotile a	and crocidolite
Physical Hazards Update: cold stress, slip/trip/fall, animal a	and insect bites, always be aware of suuroundings
Radiation Hazards Update: none detected during previous site a	ssessment
Review of Previous Monitoring Results: Air monitoring for asbe	
and results revealed no detection of fibers in the a	
Protective Clothing/Equipment Modifications: work will be cond sampling for asbestos, TAT will upgrade to level C-A and latex gloves	ducted in level D; however, if TAT is tasked to perform APR with HEPA cartridges, tyvek with hoods, latex booties,
Special Equipment/Procedures: if sampling is required, TAT wil	.1 used a wetting agent before collecting the bulk sample f
Drilling Safety Issues (including testing the operation of dri	33 amagana, aton switches). Wh
Drilling Safety Issues (Including Cesting the Options of all	Il Tig emergency stop switches, and
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Emergency Procedures: Exit the location where work is being con	The state of the s
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Hospital/Clinic: West Jefferson Medical Center 504-347-5511	
Hospital Address: 1101 Avenue D Marrero, Louisiana	Telephone:
Directions to Hospital: Sites are located throughout the west	1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
to proceed to the West Bank Expressway then to Avenu Bank Expressway	ne D, in which the hospital is located south of the West
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Additional Topics/Observations: The area in which the sites are members should be aware of their surroundings and if	any suspicious activity is detected, immediately
remove\yourself from the area	W. N. W. S.
Team Members' Comments/Suggestions:	
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? \underline{X}
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDERS

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
Gregory R Day	Gregory Rbay	2/21/96	EAR START
Trou M. Naguin'	Ham Nague	2/21/96	EAD START
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Meeting Conducted By: Gra	PAUTY KDOY		more Klau
I so asor	(Name)		Signature)
(Sile Safe	ty Coordinator)		(Team Leader)

DAILY SAPETY MEETI	NG RECORD
GENERAL INFORMATI	ON NG
Project: WESTBANK ASBESTOS 2/2 = 46	Unda Jaseria
Project No.: 274051 K6/00 TDD/PAN No.: 706-9511-UI	0/8LAO SESSA 506-9601-033 /003501 SFXX
Project Location: West Bank area of New Orleans-Marrero, Harvey, W	
Date: 2/2/96 Time: 0/33 Weather: Overrast C	oof tean ~60 F
Specific Location: Residential driveways and servitudes throughout	the west bank area
Planned Activities: 1) conduct an extent of contamination survey,	2) perform waste volume estimates, 3) conduct written
and video/photo-graphic documentation	
SAPETY TOPICS PRESEN	· · · · · · · · · · · · · · · · · · ·
Chemical Hazards Update: Asbestos-species include chrysotile and c	rocidolice
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Physical Hazards Update: cold stress, slip/trip/fall, animal and i	nsect bites, always be aware of suuroundings
Radiation Hazards Update: none detected during previous site asses	sment
And results revealed no detection of fibers in the ambie Protective Clothing/Equipment Modifications: work will be conducte sampling for asbestos, TAT will upgrade to level C-APR wand latex gloves	d in-level D; however, if TAT is tasked to perform
Special Equipment/Procedures: if sampling is required, TAT will us	ed a wetting agent before collecting the bulk sample
Drilling Safety Issues (including testing the operation of drill r	ig emergency stop switches): NA
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Emergency Procedures: Exit the location where work-is being conduct	ed to-the nearest vehicle
Hospital/Clinic: West Jefferson Medical-Center-504-347-5511	
Hospital Address: 1101 Avenue D Marrero, Louisiana	Telephone:
Directions to Hospital: Sites are located throughout the west bank to proceed to the West Bank Expressway then to Avenue D, Bank Expressway	in which the hospital is located south of the West
Additional Topics/Observations: The area in which-the sites are loo members should be aware of their surroundings and if any remove yourself from the area	ated has a high crime rate; therefore, all team
Team Members' Comments/Suggestions:	Control of the contro
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? \underline{X}
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDERS

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
Gregory R Day	Logory Riay	2/22/96	EPA, STARI
Troy M. Naquin	From m. Mague	2/22/4	EPA-START
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Meeting Conducted By: Gn	gory Ray	\mathcal{J}	rearry Clau
OI.	(Name)		(Signature)
Site Safy	ety Coordinator)		(Team Leader)

ecology and environment, inc.	
DAILY SAPRTY MRETING RECORD	•
GENERAL INFORMATION	
Project: WESTBANK ASBESTOS -/96 UPD 02/23/96	
Project No.: #14001 (16/00) TDD/PAN No.: #06-0511_010/91.0039398N SOC - 960	- 033/MENSENS
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson	
, Date: 0735°2/256 Time: 0735 Weather:	
Specific Location: Residential driveways and servitudes throughout the west bank area	
Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estim	nates, 3) conduct writter
and video/photo-graphic documentation	over, or conduct writter.
SAFETY TOPICS PRESENTED	To the
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite	
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Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware	of suuroundings
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Radiation Hazards Update: none detected during previous site assessment	
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Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three resident and results revealed no detection of fibers in the ambient air at these locations.	lential locations in 1990
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Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TA	is tacked to perform
, sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek wi	th hoods, latex booties,
and laces groves	والمراجع والسناو فسيتانيه والمتارية
Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before col	lecting the bulk sample
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Drilling Safety Issues (including testing the operation of drill rig emergency stop switches):	
Drilling Safety Issues (including testing the operation of drill rig emergency stop switches):	A Company of the Comp
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Premency Procedures, Exit the location where work is being conducted to the nearest webjicle	
Premency Procedures, Exit the location where work is being conducted to the nearest webjicle	
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle	
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle. Hospital/Clinic: West Jefferson Medical Center 504-347-5511	
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle Hospital/Clinic: West Jefferson Medical Center 504-347-5511 Hospital Address: 1101 Avenue D Marrero Louisiana Telephone:	
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle. Hospital/Clinic: West Jefferson Medical Center 504-347-5511 Hospital Address: 1101 Avenue D Marrero Louisiana Telephone: Directions to Hospital: Sites are located throughout the west bank area, therefore, best route to proceed to the West Bank Expressway then to Avenue D, in which the hospital is loc	from any location is
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle Hospital/Clinic: West Jefferson Medical Center 504-347-5511 Hospital Address: 1101 Avenue D Marrero, Louisiana Directions to Hospital: Sites are located throughout the west bank area, therefore, best route	from any location is
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle Hospital/Clinic: West Jefferson Medical Center 504-347-5511 Hospital Address: 1101 Avenue D Marrero, Louisiana Directions to Hospital: Sites are located throughout the west bank area; therefore, best route to proceed to the West Bank Expressway then to Avenue D, in which the hospital is loc Bank Expressway Additional Topics/Observations: The area in which the sites are located has a high crime rate; to	from any location is ated south of the Mest
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle Hospital/Clinic: West Jefferson Medical Center 504-347-5511 Hospital Address: 1101 Avenue D Marrero Louisiana Telephone: Directions to Hospital: Sites are located throughout the west bank area; therefore, best route to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located bank Expressway Additional Topics/Observations: The area in which the sites are located has a high crime rate; the members should be aware of their surroundings and if any symptology activity is deferenced.	from any location is ated south of the Mest
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle Hospital/Clinic: West Jefferson Medical Center 504-347-5511 Hospital Address: 1101 Avenue D Marrero, Louisiana Directions to Hospital: Sites are located throughout the west bank area; therefore, best route to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located bank Expressway Additional Topics/Observations: The area in which the sites are located has a high crime rate; the sites ar	from any location is ated south of the West

INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X .
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDERS

Name (Printed)	Name (Sig	nature)	Date	Representing (Compa	ny/Agency)
Care Charles	4	Phon	2/236		
Gregory Filly	xnegory	- Ag	2/1/6	C/X-3,20	
Troy M. Naguin	Zrozm. N	agun	123/96	EPA-START	
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Meeting Conducted By:	(Marge)			(Fignature)	Carried Ties
Jugory (Siye Safe	ety Coordinator)			(Team Leader)	
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DAILY SAPRTY MEETING RECORD					
GENERAL INFORMATION					
Project: WESTBANK ASBESTOS 2/26/46 ARD 2/26/46					
Project No.: 274061 KJ6100 TDD/PAN No.: 700-5804-010/ELANTERBA 506-9601-033/0035015FXX					
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish					
Date: 2/26/96 Time: 0835 Weather: Partly cloudy, warm humid temp ~ 75°F.					
Specific Location: Residential driveways and servitodes throughout the west bank area					
Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste volume estimates, 3) conduct written and video/photo-graphic documentation					
and video/phoco-graphic documentation					
SAPETY TOPICS PRESENTED					
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite					
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Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of suuroundings					
Radiation Hazards Update: none detected during previous site assessment					
Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 1990 and results revealed no detection of fibers in the ambient air at these locations					
Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties, and latex gloves					
Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before collecting the bulk sample					
Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): NA					
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle					
Hospital/Clinic: West Jefferson Medical Center 504:347-5511					
Hospital Address: 1101 Avenue D Marrero Louisiana					
Directions to Hospital: Sites are located throughout the west bank area, therefore best route from any location is to proceed to the West Bank Expressway then to Avenue D; in which the hospital is located south of the West Bank Expressway					
Additional Topics/Observations: The area in which the sites are located has a high crime rate, therefore, all team members should be aware of their surroundings and if any suspicious activity is detected immediately remove yourself from the area.					
Team Members' Comments/Suggestions:					
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INITIAL PROJECT SAFETY CRECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDERS

Meeting shall be attended by all personnel who will be working within the exclusion area. Daily informal update meetings will be held when site tasks and/or conditions change.

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
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Gregory R. Day	Dilgory Klay	136 Rb	TOW HALL EPA START
Troy M Naquin	From Majur	2/26/96	EM STARI
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Meeting Conducted By:	(Name)		Signature)
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Site Sale	ety Coordinator)		(Team Leader)
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	DAILY SAFI	ETY MEETING RE	CORD		
GENERAL INFORMATION ,					
Project: WESTBANK ASBESTOS, 12719	<i>v</i> :	Mel 227	96	-	
Project No.: 274001 980 KJ6	TOD/PAN N	Io.: TOG-0511-010/9530375	SO6-9601-033/0	0350(SF	
Project Location: West Bank area		rero, Harvey, Westwego,	& Gretna, Jefferson Parish	<u> </u>	
Date: 2/27/9/_ Time: 073	Weather Own	reast, cool, -	tomo 60 65 7	BOF	
Specific Location: Residential dr	iveways and servit				
Planned Activities: 1) conduct an and video/photo-graphic	extent of contamic documentation	nation survey, 2) perfor	m waste volume estimates, 3) cond	uct written	
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	SAPET	TY TOPICS PRESENTED			
Chemical Hazards Update: Asbestos	-species include o	chrysotile and crocidolit	e , .		
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D		11	an always be suize of any and		
rnysical Hazards Update: cold str	ress, slip/trip/fal	i, animai and insect bit	es, always be aware of suuroundin	g8.	
Radiation Hazards Update: none de	tected during prev	vious site assessment		,	
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Protective Clothing/Equipment Mod	lifications: work w		D however, if TAT is tasked to cartridges, tyvek with hoods, lat		
Special Equipment/Procedures: if	sampling is requir	ed, TAT will used a wett	ing agent before collecting the b	ulk sample	
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Drilling Safety Issues (including	testing the opera	tion of drill rig emerge	ency stop switches): NA		
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			- 2003) 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
Emergency Procedures: Exit the loc	ation where work-1	s being conducted to the	nearest vehicle		
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		347-5511		endervers (17. c)	
Hospital/Clinic: West Jefferson Me	AND A THE REST OF A PARK A STATE OF	347-5511		A TANKE OF THE	
Hospital Address: 1101 Avenue D Ma	29 6		.Telephone:		
Directions to Hospital: Sites are to proceed to the West Bank Expressway			the hospital is located south of		
Additional Topics/Observations: The members should be aware remove yourself from the	of their surround		a high crime rate, therefore all us activity is detected, immediat		
Team Members' Comments/Suggestions): ; ; ; ; ;	Zero is	And the Parish of the Control		
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INITIAL PROJECT SAFETY CRECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
Gregory RDay	Gregory Reay	2/27/96	EPA-START
Troy of Naquin	Angra. Magum.	2/27/46	EPA-START
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Meeting Conducted By: Gr	egory R Day	_ Lo	gory Play
Harris	Wame)	7 0	(Signature
(Sife Safe	ety Coordinator)		(Team Leader)
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DAILY SAFETY MEETING RECORD	
GENERAL INFORMATION	·
Project: WESTBANK ASBESTOS 46 SURS 2/28/96	,
	6-9601-833/8935015FXX
Project Location: West Bank area of New Orleans-Marrero, Harvey, Nestwego, & Gretna,	
Date: 2/28/06 Time: \$735 Weather: Overcast humid	4. NT/6°C
Specific Location: Residential driveways and servitudes throughout the west bank are	euro P
	
Planned Activities: 1) conduct an extent of contamination survey, 2) perform waste waste waste video/photo-graphic documentation	Olume estimates, 3) conduct written
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SAPETY TOPICS PRESENTED	
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite	•
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Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, alway	/s.be aware.of.suuroundings
Radiation Hazards Update: none detected during previous site assessment	
Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at and results revealed no detection of fibers in the ambient air at these lo	cations
Protective Clothing/Equipment Modifications: work will be conducted in level D; hower sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridge and latex gloves	es, tyvek with hoods, latex booties
Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent	before collecting the bulk sample
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Drilling Safety Issues (including testing the operation of drill rig emergency stop	switches): NA
And the second of the second o	
Emergency Procedures: Exit the location where work is being conducted to the nearest	vehicle
Hospital/Clinic: West Jefferson Medical Center 504-347-5511	
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Directions to Hospital: Sites are located throughout the west bank area; therefore, to proceed to the West Bank Expressway then to Avenue D, in which the hosp Bank Expressway	
Additional Topics/Observations: The area in which the sites are located has a high or members should be aware of their surroundings and if any suspicious activities remove yourself from the area	ime rate, therefore, all team ty is detected immediately
Team Members' Comments/Suggestions:	
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? x and made familiar to all team members? x
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed) Name (Signature) Date Representing (Company/Agency) CAREWRY R DAY Degry Roay 2/28/96 CAR START 1/28/96 CAR START				
TROY M. NAQUIN TROY M. NAQUIN	Name (Printed)	Name (Signature)		Representing (Company/Agency)
TEOX M. NAQUIN TOTAL PAGE 128/96 EM START 120/1000 A START 12	EGORY R DAY	Legory Roay	2/28/96	
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Meeting Conducted By: GREGORY PDAY Jugo W. Say			g.	esou flai
A A Market Marke	1	(Name)		(Signature)
Jugour Lady (Site/Safety Coord/Mator) (Team Leader)		ty Coordinator)		(Team Leader)

DAILY SAFETY MEETING RECORD				
GENERAL INFORMATION				
Project: WESTBANK ASBESTOS 12496 2 2994				
Project No.: 2000 TDD/PAN No.: TOG 9511_010/BLA0375GRA				
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gr	retna, Jefferson Parish			
Date: 2/21/94 Time: 0749 Weather: CEO, DUCT COST, chrees	4 temo~52°F			
Specific Location: Residential driveways and servitudes throughout the west bas				
Planned Activities: 1) conduct an extent of contamination survey, 2) perform wa and video/photo-graphic documentation	aste volume estimates, 3) conduct written			
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SAFETY TOPICS PRESENTED				
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite				
Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites,	always be aware of suuroundings			
	an executive and a second			
Radiation Hazards Update: none detected during previous site assessment				
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Review of Previous Monitoring Results: Air monitoring for asbestos was conducte and results revealed no detection of fibers in the ambient air at the anti-conducted in level D. Protective Clothing/Equipment Modifications: work will be conducted in level D. sampling for asbestos, TAT will upgrade to level C-APR with HEPA cart	ese locations			
and latex gloves				
' Special Equipment/Procedures: if sampling is required, TAT will used a wetting	agent before collecting the bulk sample			
en de la companya de				
Drilling Safety Issues (including testing the operation of drill rig emergency	stop switches): NA			
The second of				
Emergency Procedures: Exit the location where work is being conducted to the nea	arest vehicle			
Hospital/Clinic: West Jefferson Medical Center 504-347-5511				
Hospital Address: 1101 Avenue D Marrero, Louisiana	Telephone:			
Directions to Hospital: Sites are located throughout the west bank area; theref to proceed to the West Bank Expressway then to Avenue D, in which the Bank Expressway	fore, best route from any location is			
Additional Topics/Observations: The area in which the sites are located has a himmembers should be aware of their surroundings and if any suspicious a remove yourself from the area	igh crime rate; therefore, all team activity is detected, immediately			
Team Members' Comments/Suggestions:				
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name	(Signature)	Date	Represent	ing (Company/Agency)	
Gregory R.Day	Dogory	Roay	2/29/16	EAN-	START	
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Meeting Conducted By:	enory &	2 /au	\mathscr{A}	nonu X	Sou	•
Han - al	(Name)			Signatu	ire)	 E .
Site Spil	ety Coordinator)	uy	_ <i>Z</i> _	Team Lea	ider)	
		V			. •	:

DAILY SAFETY MEETING RECORD

Project: WESTBANK ASBESTOS Project No.: KJ6100 TDD/PAN No.: S06-9601-033/003501SFXX Project Location: West Bank area of New Orleans-Marrero, Harvey, Nestwego, & Gretna, Jefferson Parish Date: 1/15/96 Time: /// Weather:

Specific Location: Residential driveways and servitudes throughout the west bank area

Planned Activities: assist the LDEQ in the collection of bulk and soil samples at the site; START will not sample, START will provide written, photographic, and videographic documentation. START will also conduct sample packaging after decon by the LDEQ.

SAPETY TOPICS PRESENTED

Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite

Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of your surroundings

Radiation Hazards Update: none detected during previous site assessment

Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 1990 and results revealed no detection of fibers in the ambient air at these locations

Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform sampling for asbestos. TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties, and latex gloves

Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before collecting the bulk sample

Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): NA

Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle

Hospital/Clinic: West Jefferson Medical Center 504-347-5511

Hospital Address: 1101 Avenue D Marrero, Louisiana

Telephone:

Directions to Hospital: Sites are located throughout the west bank area; therefore, best route from any location is to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located south of the West. Bank Expressway

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Additional Topics/Observations: The area in which the sites are located has a high crime rate; therefore, all team members should be aware of their surroundings and if any suspicious activity is detected, immediately remove yourself from the area

Team Members' Comments/Suggestions:

INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
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Meeting Conducted By:	work. Noque	ng v	(Signature)
· · · · · · · · · · · · · · · · · · ·	(Name)		(Signature)
(Site Safe	ety Coordinator)		(Team Leader)

ecology and environment, inc.					
DAILY SAPETY MEETING RECORD					
	GENERAL INFORMATION				
Project: WESTBANK ASBESTOS					
Project No.: KJ6100	TDD/PAN No.: S06-9601-033/003501	SFXX			
Project Location: West Bank area of New	Orleans-Marrero, Harvey, Nestwego,	& Gretna, Jefferson F	arish		
Date: 4/16/96 Time: 6735 Wea	ther: Sung, coul ~59°F, 1	unse, Line la	midety.		
Specific Location: Residential driveways	and servitudes throughout the wes	t bank area			
Planned Activities: assist the LDEQ in t START will provide written, ph sample packaging after d	otographic, and videographic docum				
	SAPETY TOPICS PRESENTED				
Chemical Hazards Update: Asbestos-specie	s include chrysotile and crocidoli	te			
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Physical Hazards Update: cold stress, sl	ip/trip/fall, animal and insect bi	tes, always be aware o	f your surroundings		
•					
Radiation Hazards Update: none detected	during previous site assessment	· · · · .			
Protective Clothing/Equipment Modification	ons: work will be conducted in level upgrade to level C-APR with HEPA	rel D; however, if TAT			
Special Equipment/Procedures: if sampling	g is required, TAT will used a wet	ting agent before coll	ecting the bulk sample		
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Drilling Safety Issues (including testing	g the operation of drill rig emerg	ency stop switches): N			
		!			
Emergency Procedures: Exit the location w	here work is being conducted to the	e nearest vehicle	100 miles		
	and the second s	The second second			
Hospital/Clinic: West Jefferson Medical C	enter 504-347-5511				
Hospital Address: 1101 Avenue D Marrero,	Imigiana	Telephone:			
Directions to Hospital: Sites are located to proceed to the West Bank Exp		herefore, best route f	rom any location is ted south of the West		
Bank Expressway					
Additional Topics/Observations: The area members should be aware of the remove yourself from the area	in which the sites are located has ir surroundings and if any suspici	a high crime rate; thous activity is detect	erefore, all team ed, immediately		
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Team Members' Comments/Suggestions:	. *				
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ecology and environment

INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDRES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
TROY M. NASUEN	Trong - Nogue	4/16/86	EPA START
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Meeting Conducted By:	(Name)		(Signature)
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(Site Safe	ety Coordinator)		(Team Leader)

DAILY SAFETY MEETING RECORD

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	GENERAL INFORMATION	_
	Project: WESTBANK ASBESTOS	
	Project No.: KJ6100 TDD/PAN No.: S06-9601-033/003501SFXX	
	Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish	
	Date: 4/17/96 Time: 0735 Weather: Clean slave, tem - 60°F, NW went, low lumber	
	Specific Location: Residential driveways and servitudes throughout the west bank area	
	Planned Activities: assist the LDEQ in the collection of bulk and soil samples at the site; START will not sample, START will provide written, photographic, and videographic documentation. START will also conduct sample packaging after decon by the LDEQ.	
_	SAPRTY TOPICS PRESENTED	_
_	Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite	_
		_
	Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of your surroundings	
_	Radiation Hazards Update: none detected during previous site assessment	_
	Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties and latex gloves	
	Special Equipment/Procedures: if sampling is required, TAT, will used a wetting agent before collecting the bulk sample	•
_		_
	Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): MA	
-	Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle	-
	Hospital/Clinic: West Jefferson Medical Center 504-347-5511	2
_	Hospital Address: 1101 Avenue D Marrero, Louisiana	
	Directions to Hospital: Sites are located throughout the west bank area; therefore, best route from any location is to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located south of the West Bank Expressway	
	Additional Topics/Observations: The area in which the sites are located has a high crime rate; therefore, all team members should be aware of their surroundings and if any suspicious activity is detected, immediately remove yourself from the area	_
	Team Members' Comments/Suggestions:	
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	, Name (Signature)	Date	Representing (Company/Agency)
TROYA NAQUEN	Frogn. Nagnin	4/17/54	EPA START
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receing conducted by	(Name)		(Signature)
(Site Safety Coordinator) (Team Leader)			

DAILY SAFETY MEETING RECORD					
GENERAL INFORMATION					
Project: WESTBANK ASBESTOS					
Project No.: KJ6100 TDD/PAR	N No.: S06, 9601-033/003501SFXX				
Project Location: West Bank area of New Orleans-N	Marrero, Harvey, Westwego, & Gretna, Jefferson Parish				
Date: 4/18/94 Time: 07 20 Weather: Pa	they claude, they 2660%, 80% humity, Southweit, rain explot				
Specific Location: Residential driveways and serv	vitudes throughout the west bank area				
	ction of bulk and soil samples at the site; START will not sample, ic, and videographic documentation. START will also conduct the LDEQ.				
· SAI	YETY TOPICS PRESENTED				
Chemical Hazards Update: Asbestos-species include	chrysotile and crocidolite				
	-				
Physical Hazards Update: cold stress, slip/trip/i	fall, animal and insect bites, always be aware of your surroundings				
Radiation Hazards Update: none detected during pr	revious site assessment -				
Review of Previous Monitoring Results: Air monitoring and results revealed no detection of fi	oring for asbestos was conducted at three residential locations in 1990 ibers in the ambient air at these locations				
Protective Clothing/Equipment Modifications: work sampling for asbestos, TAT will upgrade and latex gloves	k will be conducted in level D; however, if TAT is tasked to perform to level C-APR with HEPA cartridges, tyvek with hoods, latex booties,				
Special Equipment/Procedures: if sampling is requ	uired, TAT will used a wetting agent before collecting the bulk sample				
Drilling Safety Issues (including testing the ope	eration of drill rig emergency stop switches): NA				
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Emergency Procedures: Exit the location where work	t is being conducted to the nearest vehicle				
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Hospital/Clinic: West Jefferson Medical Center 50	04-347-5511				
Hospital Address: 1101 Avenue D Marrero, Louisians	The second secon				
Directions to Hospital: Sites are located through	nout the west bank area; therefore, best route from any location is then to Avenue D, in which the hospital is located south of the West				
Bank Expressway					
	the sites are located has a high crime rate; therefore, all team undings and if any suspicious activity is detected, immediately				
Team Members' Comments/Suggestions:	All				
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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name (Signature)	Date :	Representing (Company/Agency)
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meeting conducted by:	(Name)		(Signature)
(Site Safety Coordinator) .(Team Leader)			

ecology and environment, inc. DAILY SAFETY MEETING RECORD GENERAL INFORMATION Project: WESTBANK ASBESTOS TDD/PAN No.: S06-9601-033/003501SFXX Project No.: KJ6100 Project/Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish Time: 0810 Weather: Sumo, cool ~ 6501, 82% lumlity, SE winds Specific Location: Residential driveways and servitudes throughout the west bank area Planned Activities: assist the LDEQ in the collection of bulk and soil samples at the site; START will not sample, START will provide written, photographic, and videographic documentation. START will also conduct now sample packaging after decon by the LDEQ. 4/24/96 - conduct on Acm survey of the school in the westbank SAPRTY TOPICS PRESENTED Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of your surroundings Radiation Hazards Update: none detected during previous site assessment Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 1990 and results revealed no detection of fibers in the ambient air at these locations Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties; and latex gloves Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before collecting the bulk sample Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): NA Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle and the second s Hospital/Clinic: West Jefferson Medical Center 504-347-5511 بنوا عامه المحاسط المحسرات Hospital Address: 1101 Avenue D Marrero, Louisiana 🦠 --Telephone: Directions to Hospital: Sites are located throughout the west bank area; therefore, best route from any location is to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located south of the West Bank Expressway Additional Topics/Observations: The area in which the sites are located has a high crime rate; therefore, all-team members should be aware of their surroundings and if any suspicious activity is detected, immediately , remove yourself from the area Team Members' Comments/Suggestions: 1. Jan. 1.

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INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTRNDERS

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)	
TROYM. NAQUEN	Zrogin- Nagui	4/24/96	EPA START	
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Meeting Conducted By:	(Name)	 		
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(Site Safe	ty Coordinator)		(Team Leader)	

DAILY SAPETY MEETING RECORD						
GENERAL INFORMATION						
Project: WESTBANK ASBESTOS						
Project No.: KJ6100 TDD/PAN No.: S06-9601-033/003501SFXX						
Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish						
Date: 5/2/94 Time: 0925 Weather: Gatty closely, wend from SE, tang ~ 68°F						
Specific Location: Residential driveways and servitudes throughout the west bank area						
Planned Activities: assist the LDEQ in the collection of bulk and soil samples at the site; START will not sample, START will provide written, photographic, and Videographic documentation. START will also conduct sample packaging after decon by the LDEQ. The ELA regressibility on a site form, will not sample interest the sample packaging after decon by the LDEQ.						
SAFETY TOPICS PRESENTED						
Chemical Hazards Update: Asbestos-species include chrysotile and crocidolite						
Physical Manuel Underes gold stress olin/trin/fall animal and insect hiras always he suggest the suggest that						
Physical Hazards Update: cold stress, slip/trip/fall, animal and insect bites, always be aware of your surroundings						
Radiation Hazards Update: none detected during previous site assessment						
Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 1990 and results revealed no detection of fibers in the ambient air at these locations						
Protective Clothing/Equipment Modifications: work will be conducted in level D; however, if TAT is tasked to perform sampling for asbestos, TAT will upgrade to level C-APR with HEPA cartridges, tyvek with hoods, latex booties, and latex gloves						
Special Equipment/Procedures: if sampling is required, TAT will used a wetting agent before collecting the bulk sample						
Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): NA						
brilling Safety issues (including testing the operation of artif ing emergency stop switches). In						
Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle						
Hospital/Clinic: West Jefferson Medical Center - 504-347-5511						
Hospital Address: 1101 Avenue D Marrero, Louisiana Telephone:						
Directions to Hospital: Sites are located throughout the west bank area; therefore, best route from any location is to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located south of the West Bank Expressway						
Additional Topics/Observations: The area in which the sites are located has a high-crime rate; therefore, all team members should be aware of their surroundings and if any suspicious activity is detected, immediately remove yourself from the area						
Team Members' Comments/Suggestions:						
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INITIAL PROJECT SAPETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTRNDERS

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)
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Meeting Conducted By:	HOLOHAN MEN		(Signature)
tonduced by.	(Name)		(Signature)
70/1-2-0-1	ety Coordinator)		(Team Leader)

DAILY SAPETY MEETING RECORD

GENERAL INFORMATION

Project: WESTBANK ASBESTOS

Project No.: KJ6100

TDD/PAN No.: S06-9601-033/003501SFXX

Project Location: West Bank area of New Orleans-Marrero, Harvey, Westwego, & Gretna, Jefferson Parish

Date:07/11/96

Time: 0705

Weather: Sung, wan-

him 34 they bird

Specific Location: Residential driveways and servitudes throughout the west bank area

Planned Activities: conduct a site tour with the EPA and the Corp of Engineers to collect information for a proposed removal action. START will conduct written and possibly photographic documentation.

SAFETY TOPICS PRESENTED

Chemical Hazards Update: Asbestos-species include chrysotile, crocidolite, and amosite

Physical Hazards Update: heat stress, slip/trip/fall, animal and insect bites, always be aware of your surroundings

Radiation Hazards Update: none detected during previous site assessment

Review of Previous Monitoring Results: Air monitoring for asbestos was conducted at three residential locations in 1990 and results revealed no detection of fibers in the ambient air at these locations

Protective Clothing/Equipment Modifications: work will be conducted in level D

Special Equipment/Procedures: START will not disturb any ACM during the site visit

Drilling Safety Issues (including testing the operation of drill rig emergency stop switches): NA

Emergency Procedures: Exit the location where work is being conducted to the nearest vehicle

Hospital/Clinic: West Jefferson Medical Center 504-347-5511

Hospital Address: 1101 Avenue D Marrero, Louisiana

Telephone: 504-347-5511

Directions to Hospital: Sites are located throughout the west bank area; therefore, best route from any location is to proceed to the West Bank Expressway then to Avenue D, in which the hospital is located south of the West Bank Expressway

Additional Topics/Observations: The area in which the sites are located has a high crime rate; therefore, all team members should be aware of their surroundings and if any suspicious activity is detected, immediately remove yourself from the area

Team Members' Comments/Suggestions:

INITIAL PROJECT SAFETY CHECKLIST

- 1. Emergency information reviewed? X and made familiar to all team members? X
- 2. Route to nearest hospital driven? X and its location known to all team members? X
- 3. Site safety plan readily available and its location known to all team members? X
- 4. E & E Drilling SOP on Site? NA and available for team member review? NA

ATTENDEES

Name (Printed)	Name (Signature)	Date	Representing (Company/Agency)	
Carol A Geraghly	Carol a Burat	7-11-96	E+E	
TROYM. NADITH	anon - lago	7-11-96	E+E E+E	
			•	
:			,	
Meeting Conducted By: They m. Naguer day - Mag. (Signature)				
(Site Safety Coordinator) (Site Safety Coordinator) (Team Leader)				

ATTACHMENT

SITE SAFETT QUAN ADDENDUMS

Marine - Angles - Ang

EXISTING SITE SAFETY PLAN ADDENDUM FORM
Site Name: Wastbank Osbeston TDD Number: 506-9601-033
Date of Original SSP: 12/1/9 5 (Tob-9010-9HC PAN Number: 0035015FXX (00) Paniana Tob-9511-010)
Date of Amendment: 3/20/96 Date of Proposed Work: 3/29/96
Added Activities and Hazard Evaluations: START will combust density that measurements of the Acm. The text will require some coming at the material. START will use a wetting agent to suppress any officer released. Wetting agent will consist of soog solution al wate.
Added Monitoring Activities: north 51AAT will month and dut/gestrulte untle the Real Juie and months - dust will be supressed untle
Level of Protection:AB _< CD
Reason for Up/Downgrading: Que to coming activities into the Acm, ashester files could become andorre. PPE: Agree, later booties, glover-inner later, outer cotton, APR with Agree 1986. How Agree 6mc-H contridges
Decon: Duy dem lack person hill perform own Lear disposable PPEquil frimarily be warry THE Will be collected in tradic based sealed.
Team Members Responsibility Anogan Naguri Project Manage /530 John muella Jean Member
Theory Roy Teon loader 1. The Crub From
Equipment Quantity Equipment Quantity Ail Leshon 2 Acade 2 Fell equipment list for extendent
THE TERMS OF THE ORIGINAL SSP SHALL BE IN EFFECT EXCEPT AS NOTED ON THIS FORM.
Prepared by: Aron Naguri Date: 3/20/96 Reviewed by: Date: 3/21/96

ecology and environment, inc. EXISTING SITE SAFETY PLAN ADDENDUM FORM					
Date of Original SSP: 12/1/95 to 10-9	PAN Num	ber: <u>506-9601-033</u> ber: <u>003501SFx× (604</u> oposed Work: <u>4/75/96</u>	PAN 03755 D)		
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Team Members	•	Responsibility			
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THE TERMS OF THE ORIGINAL SSP S	MALL BE IN EFFECT EXCE	1 AS NUTED ON THIS FORM.			
December 1	AAAA 1 Data	4/12/96			
Prepared by:	V	1112114			
Reviewed by:	Date:_		•		

DRAFT

ASBESTOS BULK SAMPLING



SAFETY CONSIDERATIONS

- 1. Except in extraordinary circumstances, try to conduct sampling when no occupants or unprotected workers are in the area.
 - Collect samples wearing Level C protection as outlined in the Site Safety Plan. APR with HEPA filter (MSA APR Cartridge Type H) can be worn if other chemical hazards are not present, ex., organic vapors, etc. that require use of GMC-H cartridge.
 - 3. Carefully clean APR after use to remove any airborne contamination.
 - 4. Avoid all contact with asbestos.
 - 5. If bulk sampling 3 hrs or longer, collect personal air samples for analysis of asbestos content.
 - 6. Do not smoke, drink, or eat in the work area.
 - 7. Shover at the end of the work.
 - 8. Follow the sampling procedure to reduce generation of airborne contamination.
 - a. Use a spray bottle containing amended water (detergent and water) to spray the surface of the area to be sampled.
 - b. Use a knife or other appropriate tool to cut free a sample of the material with a minimum size of 0.5 cubic inch. Penetrate the whole thickness of the insulation and collect all layers.
 - c. Spray the sample area again with the water solution. With the knife in one hand and an open, labeled sample bag in the other hand, cut the sample free, allowing it to fall into the bag.
 - d. Seal the bag carefully and place inside a second bag to prevent leakage.
 - e. Patch the sampled area with furnace cement, duct tape, or plaster patch, as appropriate. The tape will minimize fiber release and mark the sampling location for future reference.
 - f. Clean any noticeable amount of insulation from the floor below the sampled area with a wet sponge or towel or with a high-efficiency particulate air (HEPA) vacuum.
 - g. Place all disposables into a 6-mil plastic bag labeled as containing asbestos; seal bag.
 - h. Decontaminate the sampling tool with wet wipes before proceeding to the next sample site; add wipes to waste bag.